

Size, Weight, and Shell Condition of Commercial
Dungeness Crab Catches in the Kodiak District,
Westward Region, Alaska, 1986

By

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and

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Regional Information Report¹ No. 4K88-15

Alaska Department of Fish and Game
Division of Commercial Fisheries
211 Mission Road
Kodiak, Alaska 99615

January 1988

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ABSTRACT

The commercial Dungeness crab (*Cancer Magister*) fishery in the Kodiak District of the Westward Region of Alaska harvested a total of 967,423 lb of male Dungeness crab in 1986. A total of 3,437 crab were sampled for carapace width, shell-age, and weight characteristics. Average carapace width was 179 mm. Recruit crab percentages for each of the seven fishing sections sampled ranged from 62% to 95%. A width-weight relationship was derived for each fishing section and fishing period.

KEY WORDS: Dungeness crab (*Cancer Magister*), carapace width, shell-age, weight, recruit

EXPLANATION OF TERMS

- Crab measurements - All crab measurements, e.g. 194 mm, refer to carapace width as measured inside the tenth antero-lateral spine
- Legal crab - Male Dungeness crabs ≥ 165 mm in carapace width
- Recruit crab - New-shell and new soft-shell male Dungeness crab ≤ 165 -193 mm in carapace width, recruited to legal size in year of capture
- Post-recruit crab - Legal, old-shell male Dungeness crab ≤ 165 -193 mm in carapace width and all male Dungeness crab > 193 mm in carapace width. These animals have been legal size at least one year prior to capture
- Fishing period - One month, data has been aggregated by monthly increments

INTRODUCTION

Dungeness crab (*Cancer magister*) is an important, commercially utilized species in the Kodiak District. The Kodiak District includes all Pacific Ocean waters south of the latitude of Cape Douglas (58°52'N.lat) west of the longitude of Cape Fairfield (148°50'W.long), east of the longitude of Cape Kumlik (157°27'W.long) and shoreward of the 200 fathom depth contour.

The Kodiak District is divided into eight fishing sections as described in 5AAC 35.505 of the *Alaska Department of Fish and Game 1986 Commercial Shellfish Regulations* (labeled A-H for management purposes, Figure 1). Catch in 1986 was reported by fishermen for seven of the fishing sections (Table 1).

Dungeness crab catches have averaged 3,020,811 lb per season since 1962. From 1981-1985 the catch averaged 4,865,682 lb per season, but the 1986 harvest declined to 967,423 lb (Table 2). Catch sampling data is needed to provide information for active management and research. The fishery was restricted to the harvesting of male crab ≥ 165 mm (6.5") in carapace width. Fishing seasons in 1986 were May 1 - December 31 in the northend of Kodiak and June 15 - December 31 in the southend (Figure 2). Sampling was initiated to estimate the width frequencies of the commercial harvest of Dungeness crab for each fishing section. Width frequencies were then combined with the observed shell condition and recruit and post-recruit ratios for each section were derived. Also estimated for the first time were the width-weight relationships for each section in the Kodiak District.

METHODS

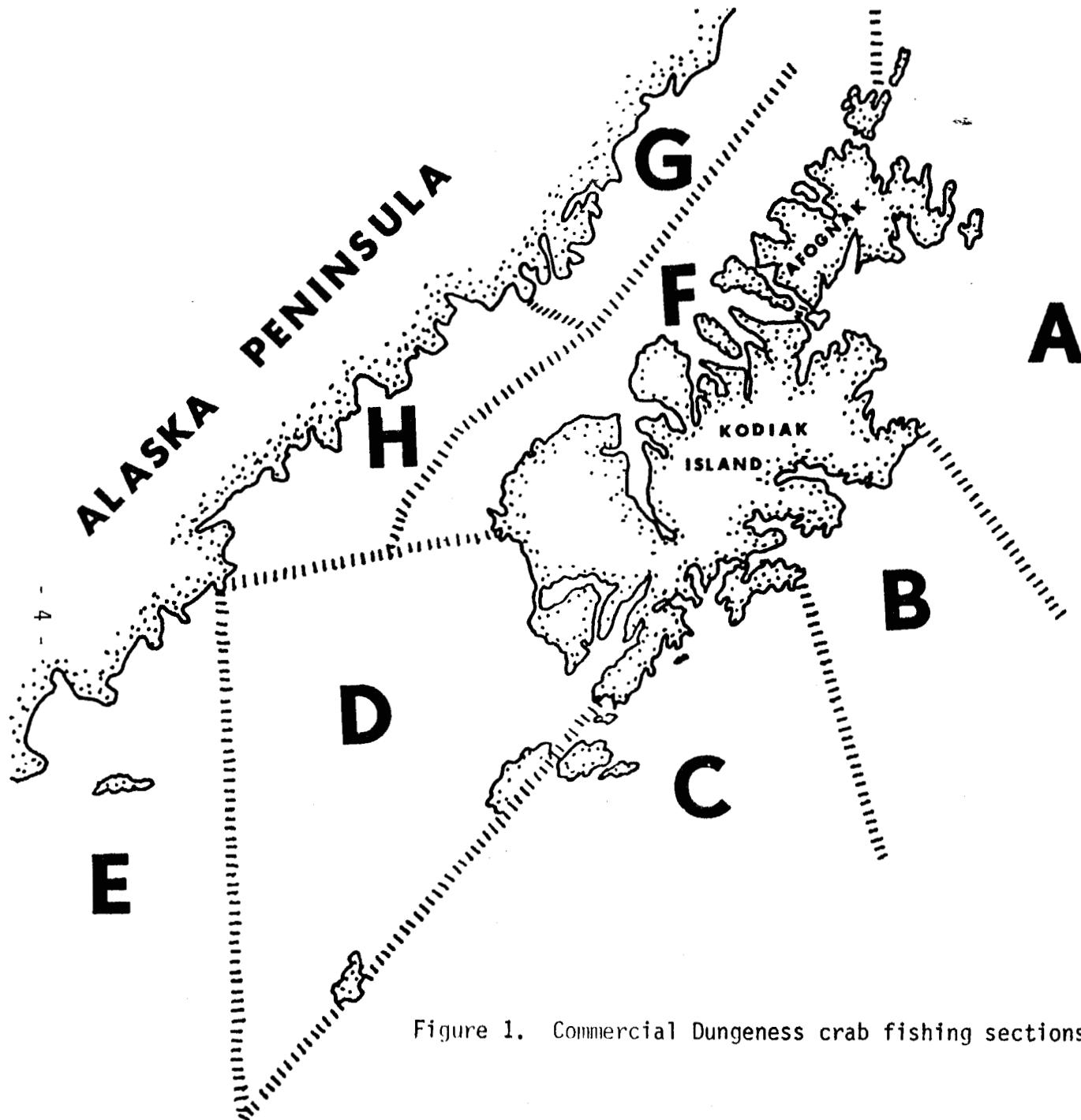
Abundance

Commercial Dungeness crab catch data used in this report were compiled by the Division of Commercial Fisheries, Alaska Department of Fish and Game, and originated from individual fish tickets. No population assessment of Kodiak Dungeness stocks was conducted independent of the commercial fishery.

Width, Shell Condition, and Weight Data

Dungeness crab were sampled according to specifications described in the 1986 Catch Sampling Program for the Kodiak Management Area Dungeness Crab Fishery (Appendix A). Sampling events and sample sizes were less than desired, but the magnitude of the fishery was considerably less than anticipated.

Dungeness crab were sampled throughout the time period when the majority of commercial harvest occurred.



Section A - Northeast
B - Eastside
C - Southeast
D - Southwest
E - Semidi Islands
F - Westside
G - North Mainland
H - South Mainland

Figure 1. Commercial Dungeness crab fishing sections, Kodiak District.

Table 1. Dungeness crab commercial catch by month by section for Kodiak District, 1986.

Month	SECTION							MONTHLY TOTALS
	NE(A)	E (B)	SE(C)	SW(D)	SI(E)	W(F)	NM(G)	
May	522	2,071	-0-	-0-	-0-	2,769	886	-0- 6,248
June	10,846	30,511	15,723	1,138	-0-	4,903	-0-	-0- 63,121
July	19,842	82,967	123,981	16,976	-0-	7,228	-0-	-0- 250,994
August	16,884	68,379	44,885	11,380	-0-	14,472	7,510	2,257 165,767
September	17,659	91,688	38,027	16,008	-0-	18,997	27,412	3,965 213,756
October	14,597	53,494	20,689	8,169	-0-	21,066	49,653	-0- 167,668
November	9,170	23,802	9,874	3,560	-0-	22,615	3,561	-0- 72,582
December	3,908	11,723	-0-	-0-	-0-	9,895	1,761	-0- 27,287
Total	93,428	364,635	253,179	57,231	0	101,945	90,783	6,222 967,423

Table 2. Dungeness crab commercial catch and effort by fishing year for the Kodiak District, Statistical Area (J), 1962 through 1986.

Year	Commercial Catch				Avg. Catch		Avg. Price Per Pound	Ex-Vessel Value
	Lndgs.	Vssls.	No. Crabs	No. Pounds	Pots Lifted	Per Lndg. (Pounds)		
1962 ^a	149	-	N.A.	1,904,567	N.A.	12,782	N.A.	0.09
1963	354	-	N.A.	2,487,512	N.A.	7,026	N.A.	0.09
1964	395	29	N.A.	4,254,565	N.A.	10,537	N.A.	0.09
1965	351	25	N.A.	3,311,571	N.A.	9,434	N.A.	0.12
1966	144	12	N.A.	1,416,174	N.A.	7,976	N.A.	0.13
1967	439	18	N.A.	6,663,668	N.A.	15,179	N.A.	0.13
1968	536	43	N.A.	6,829,061	N.A.	12,741	N.A.	0.14
1969	455	29	N.A.	5,834,628	190,967	12,823	12	0.16
1970	318	33	N.A.	5,741,438	249,800	18,055	9	0.14
1971	173	24	515,653	1,445,864	90,913	8,358	6	0.18
1972	316	34	766,960	2,059,536	140,921	6,517	6	0.40
1973	487	42	879,484	2,000,526	251,467	4,108	3	0.50
1974	172	23	337,839	750,057	104,062	4,361	3	0.47
1975	154	15	307,272	639,813	76,411	4,154	4	0.61
1976	6	4	38,072	87,110	4,410	14,518	9	0.15
1977 ^b	16	2	46,333	113,026	3,805	7,064	12	0.30
1978	173	20	618,357	1,362,306	93,633	7,875	6	0.75
1979	237	28	595,850	1,311,275	137,951	5,543	4	0.75
1980	197	21	968,829	2,011,736	107,261	10,212	9	0.45
1981-82 ^c	466	50	2,614,545	5,566,463	295,138	11,945	9	0.70
1982-83 ^d	991	111	2,004,075	4,546,311	481,542	4,588	4	0.75
								3,897,000
								3,410,000

-continued-

Table 2. (p 2 of 2)

Year	Commercial Catch				Avg. Catch		Avg. Price Per Pound	Ex-Vessel Value
	Lndgs.	Vssls.	No. Crabs	No. Pounds	Pots Lifted	Per Lndg. (Pounds)		
1983-84d	1,079	103	2,044,505	4,752,148	503,464	4,408	4	1.05
1984-85d	1,163	106	2,393,974	5,303,052	627,441	4,564	4	1.45
1985 ^e	1,243	125	1,791,446	4,160,435	599,291	3,347	3	1.20
1986	577	81	439,738	967,423	199,881	1,667	2	1.15
TOTAL				75,520,265				4,989,000
AVERAGE	423	43	980,496	3,020,811	231,020	7,218	5	.49
								7,689,000
								4,992,522
								1,112,500
								36,710,022

^aSeason open year-round 1962-1976.^bOpen May 1 through December 31, 1977-1980.^cOpen February 27, 1981 through February 1, 1982.^dOpen May 1, 1982 through February 1, 1983.^eOpen May 1, 1985 through December 31, 1985.

N.A. = data not collected.

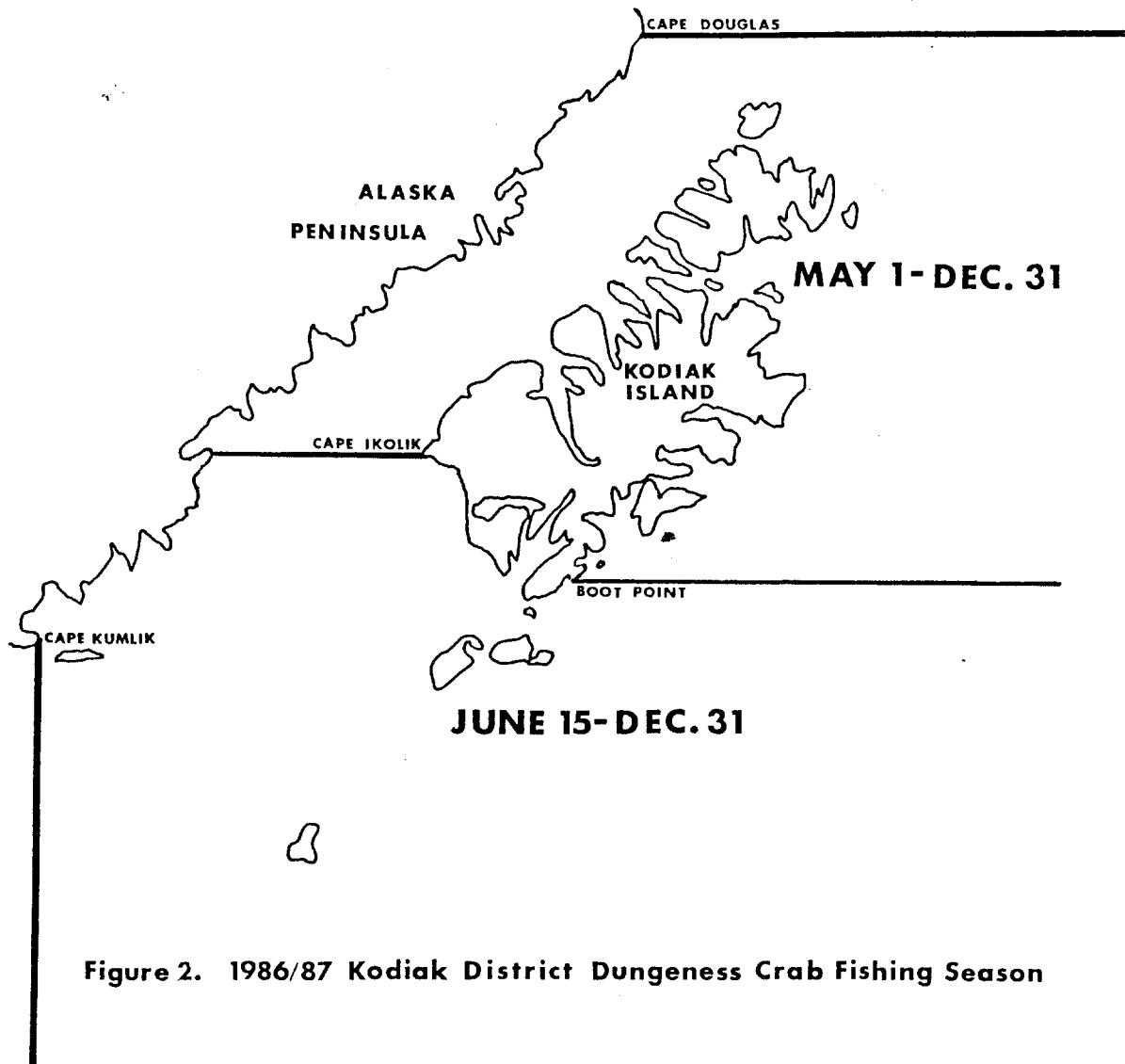


Figure 2. 1986/87 Kodiak District Dungeness Crab Fishing Season

Carapace width was recorded and shell condition noted for each crab sampled. Criteria for determining shell condition included:

- 1) New-soft (unsalable or not marketable): carapace very flexible when moderate pressure is applied,
- 2) New (hard-shell of the year): carapace inflexible when moderate pressure is applied, carapace is relatively free of epifauna, dactyli relatively sharp and unworn,
- 3) Old (obvious skip-molt): carapace inflexible when moderate pressure is applied, epifauna may be present, appendages and dactyli may be worn, definite scratches and abrasions present.

A representative subsample of crab sampled was also weighed individually with an electronic balance, Sunbeam model 7250.

Crab sampling was accompanied by a skipper interview program to identify fishing areas, catch per effort, incidence of soft-shell sorting, and bycatch of other species.

¶

RESULTS

Season harvests since 1962 have ranged from a low of 87,110 lb in 1976 to a high of 6,829,061 lb in 1968 (Table 2). The 1986 Kodiak District commercial Dungeness catch totaled 967,423 lb, the lowest harvest since 1977. The Eastside Section of Kodiak had the highest harvest in 1986 with 364,635 lb (Table 1). July had the highest monthly catch with some harvest reported during every month of the open season.

Appendix B lists the individual Dungeness crab sampled during the 1986 Kodiak District fishing season.

The number of crab sampled by section and fishing period is shown in Table 3.

Width frequencies were compiled by section and fishing period and presented in Figures 3 to 22. A width frequency graph was derived for total crab sampled from a section as well as the entire island total (Figures 23 to 30). Also included is a width frequency graph compiled from the record of all crab sampled during each fishing period (Figures 31 to 36).

Each width frequency graph also includes the number of crab and the average width of the crab in the sample.

Table 4 shows the percentage of recruit Dungeness crab in the sample for each section and fishing period. The Kodiak District average was 81% recruit animals with different section averages ranging from 26% to 95%. This compares to the previous season average of 65% recruit animals in the 1985 Kodiak District commercial Dungeness crab catch, as reported in the *Westward Region Shellfish Report To The Alaska Board of Fisheries*, April 1987.

Table 3. Number of Dungeness crab sampled by section and fishing period in the Kodiak District during 1986.

Month	FISHING SECTION							TOTAL
	Northeast	Eastside	Southeast	Southwest	Westside	North Mainland	South Mainland	
May	0	0	0	0	120	0	0	120
June	77	822	284	0	72	0	0	1,255
July	0	134	101	101	86	0	0	422
August	55	382	93	0	117	291	0	938
September	0	150	0	0	0	108	100	358
October	49	195	0	0	0	100	0	344
TOTAL	181	1,683	478	101	395	499	100	3,437

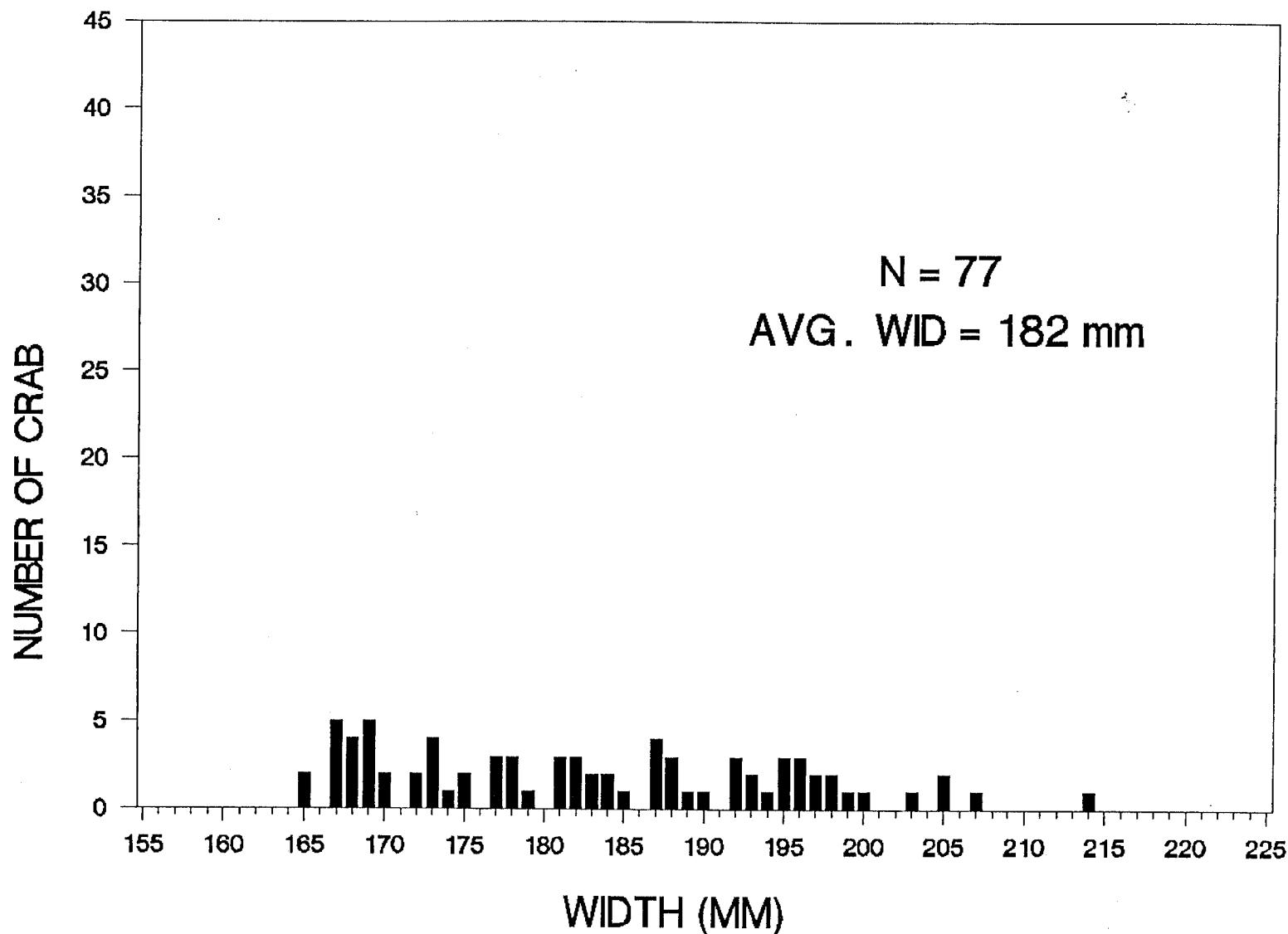


Figure 3.

Width frequency of Dungeness crab sampled from the Northeast section during June .

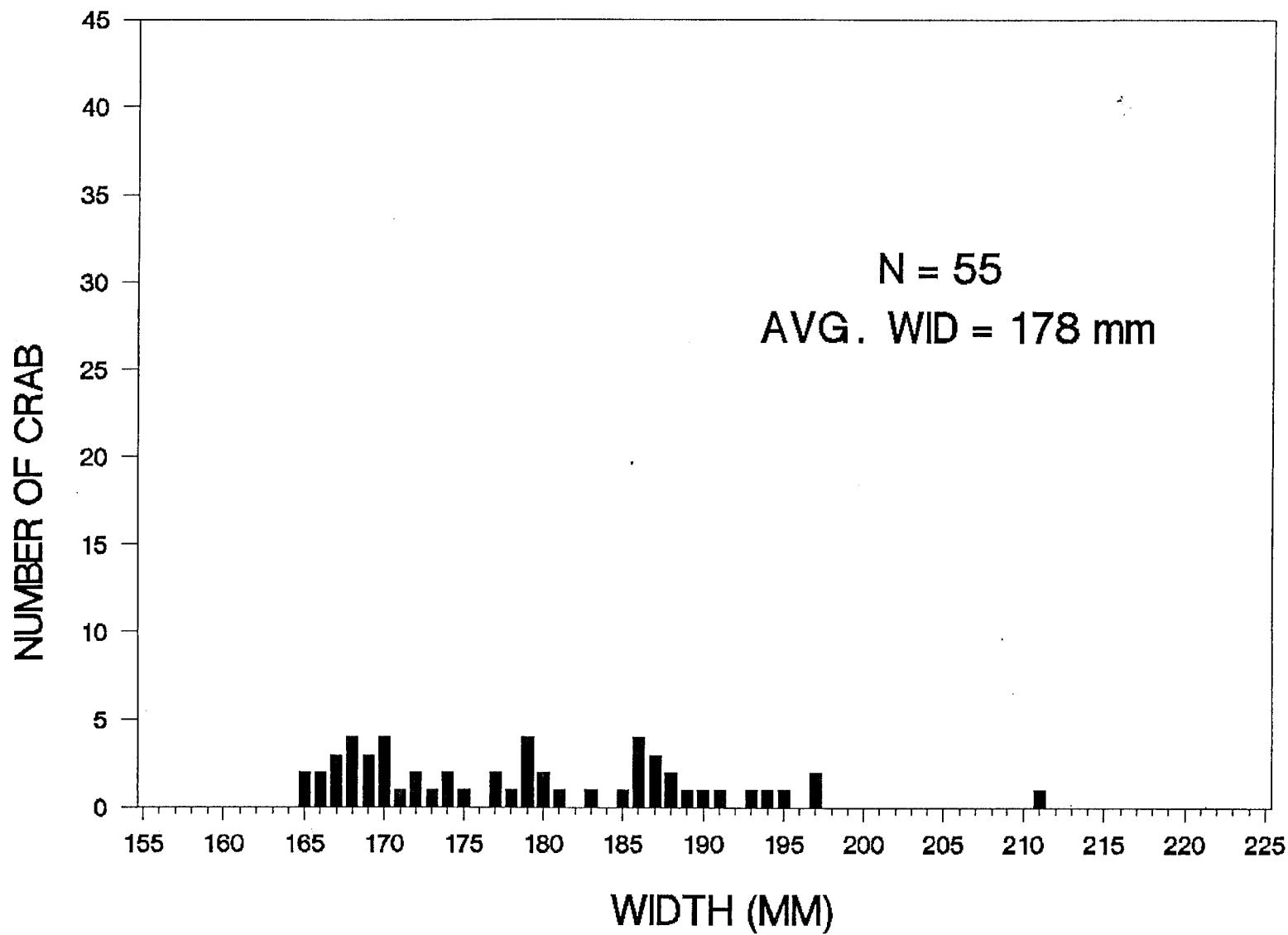


Figure 4. Width frequency of Dungeness crab sampled from the Northeast section during August.

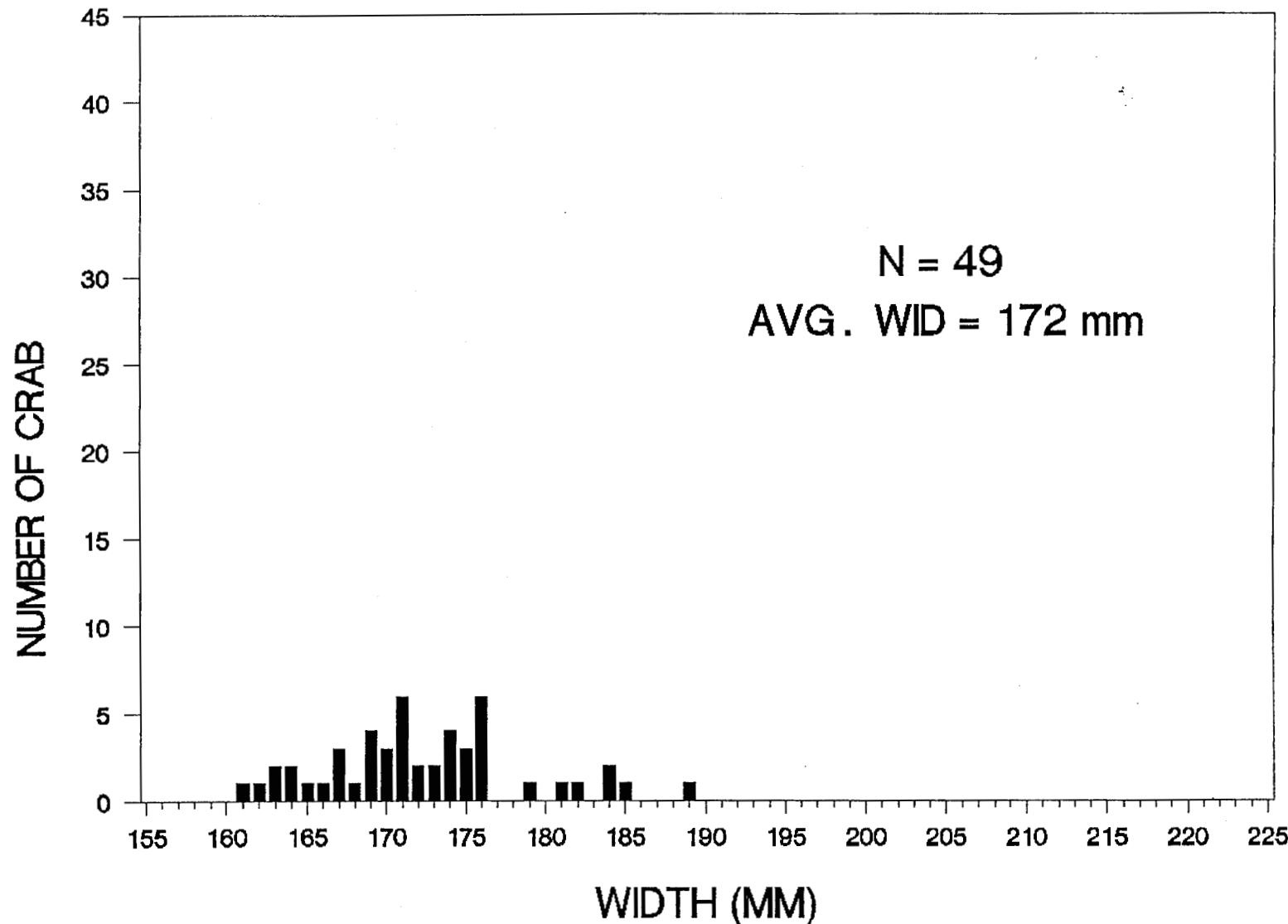


Figure 5. Width frequency of Dungeness crab sampled from the Northeast section during October.

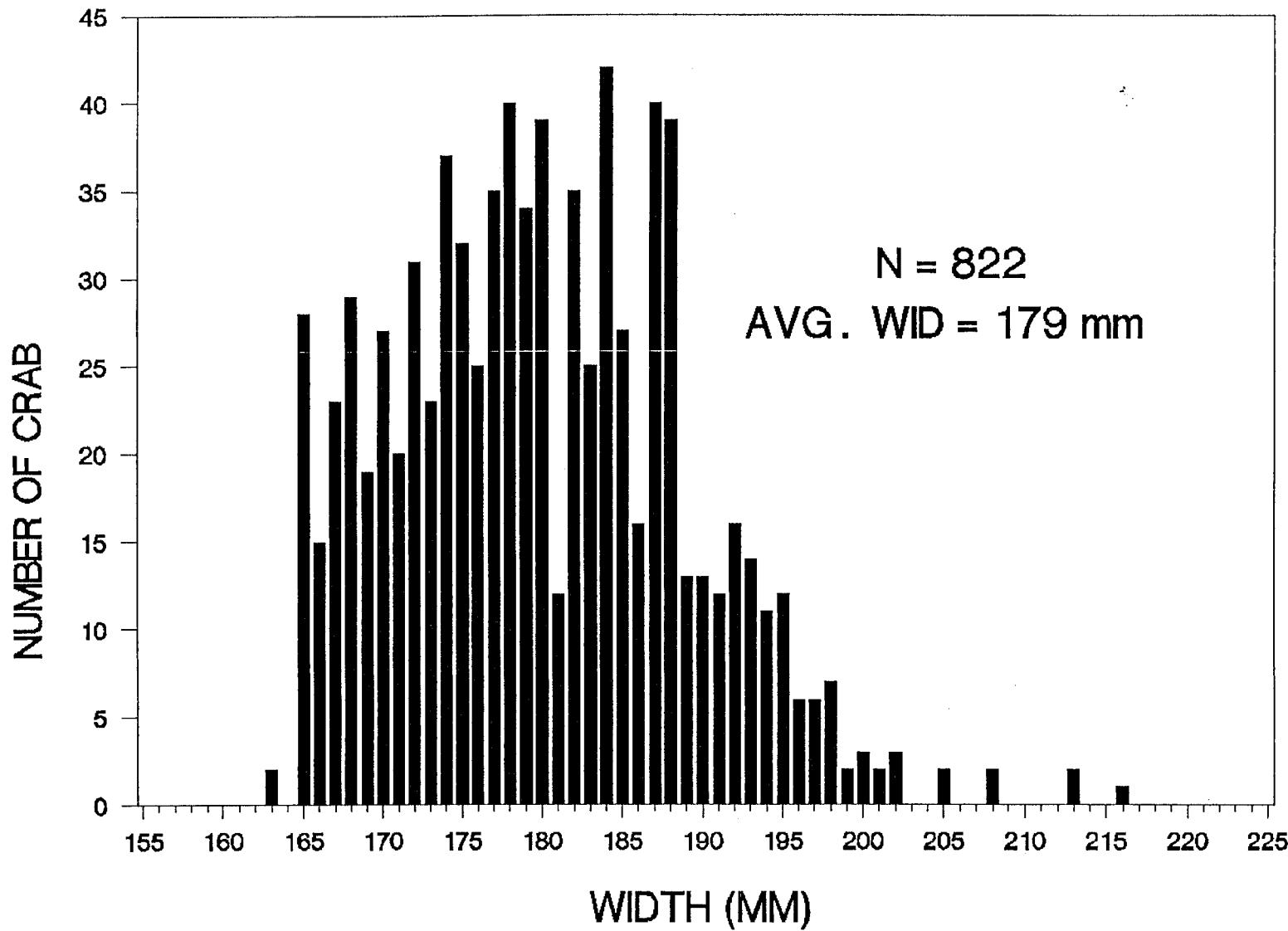


Figure 6. Width frequency of Dungeness crab sampled from the Eastside section during June.

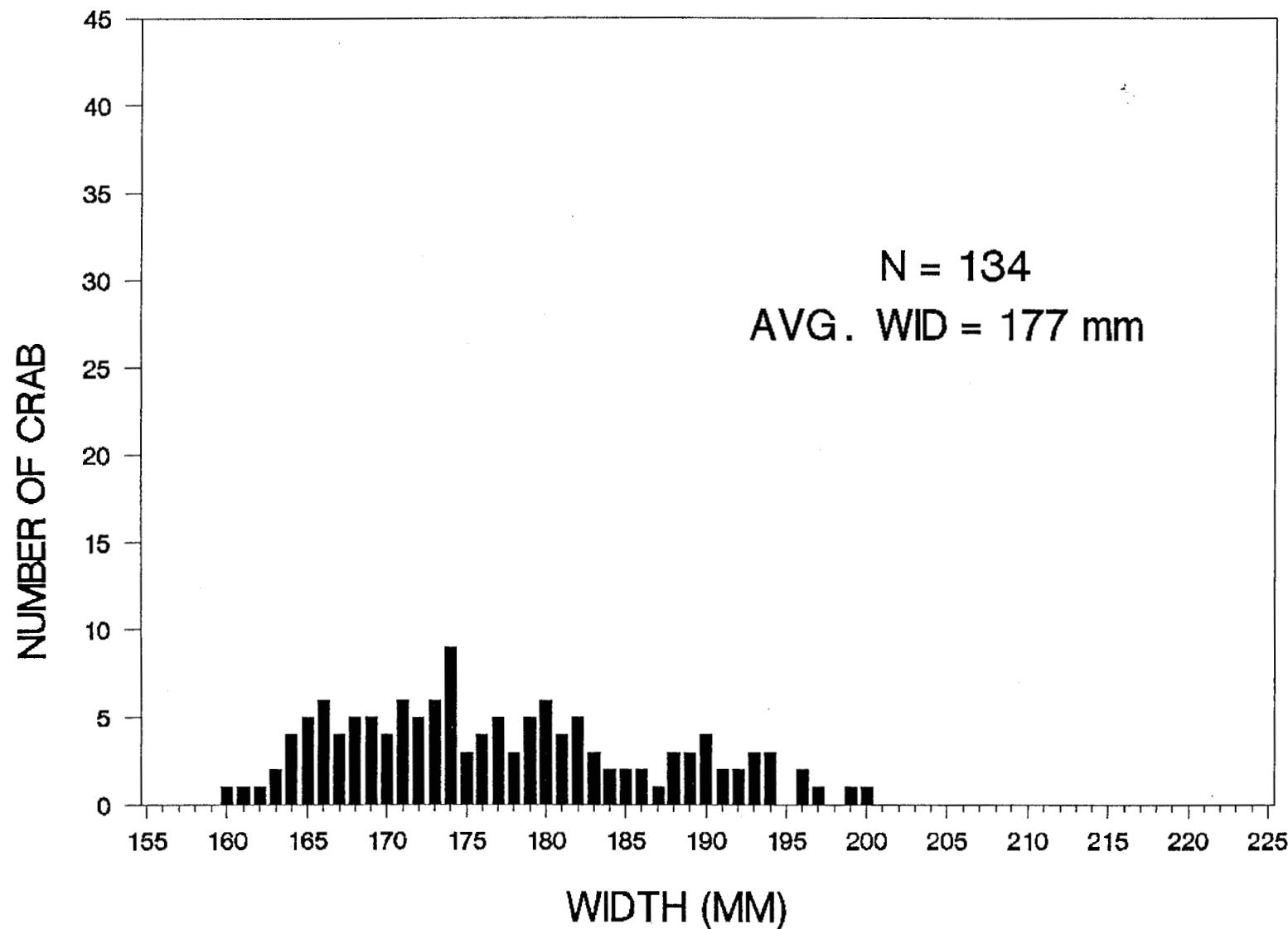


Figure 7. Width frequency of Dungeness crab sampled from the Eastside during section during July .

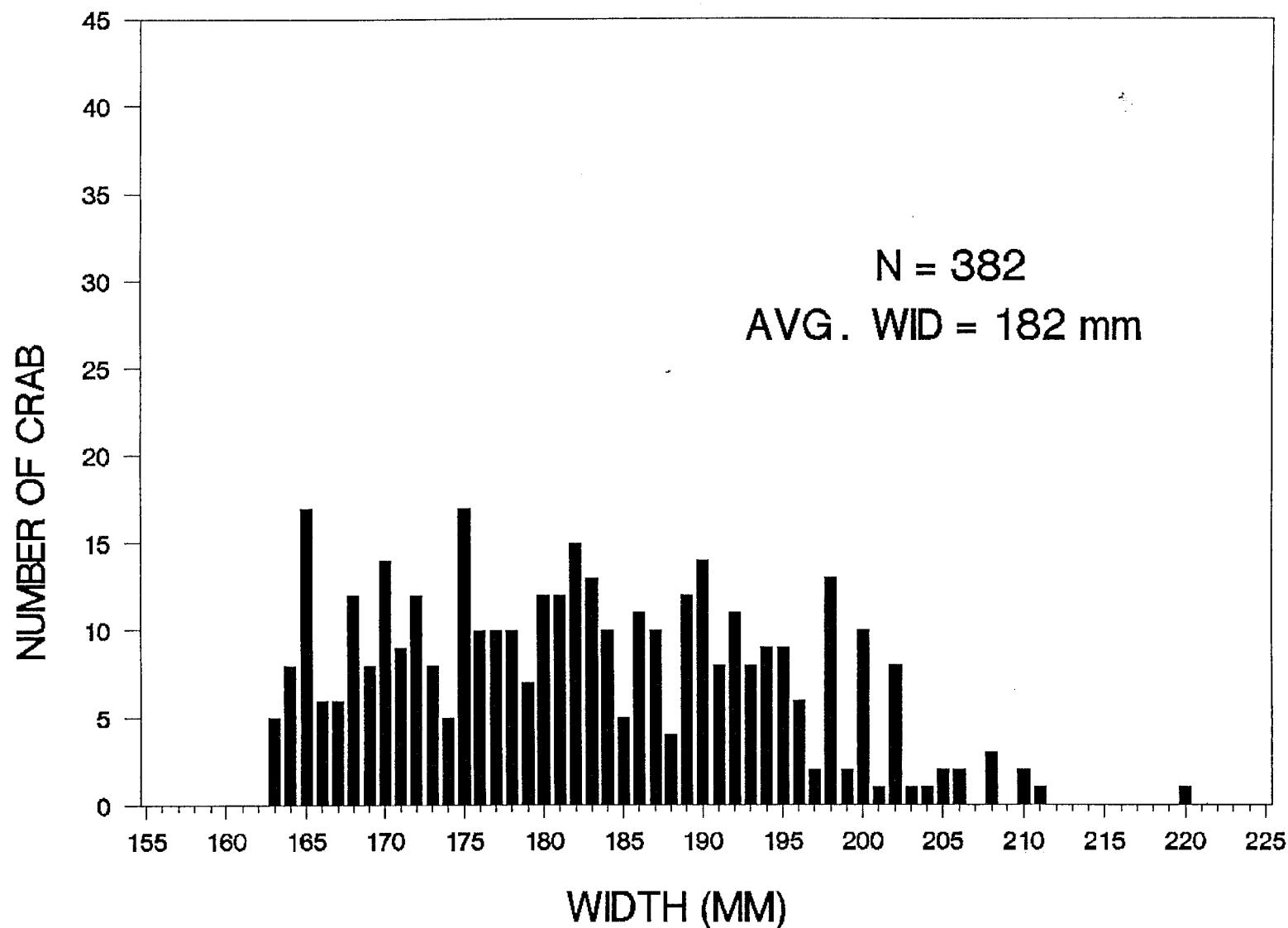


Figure 8. Width frequency of Dungeness crab sampled from the Eastside section during August.

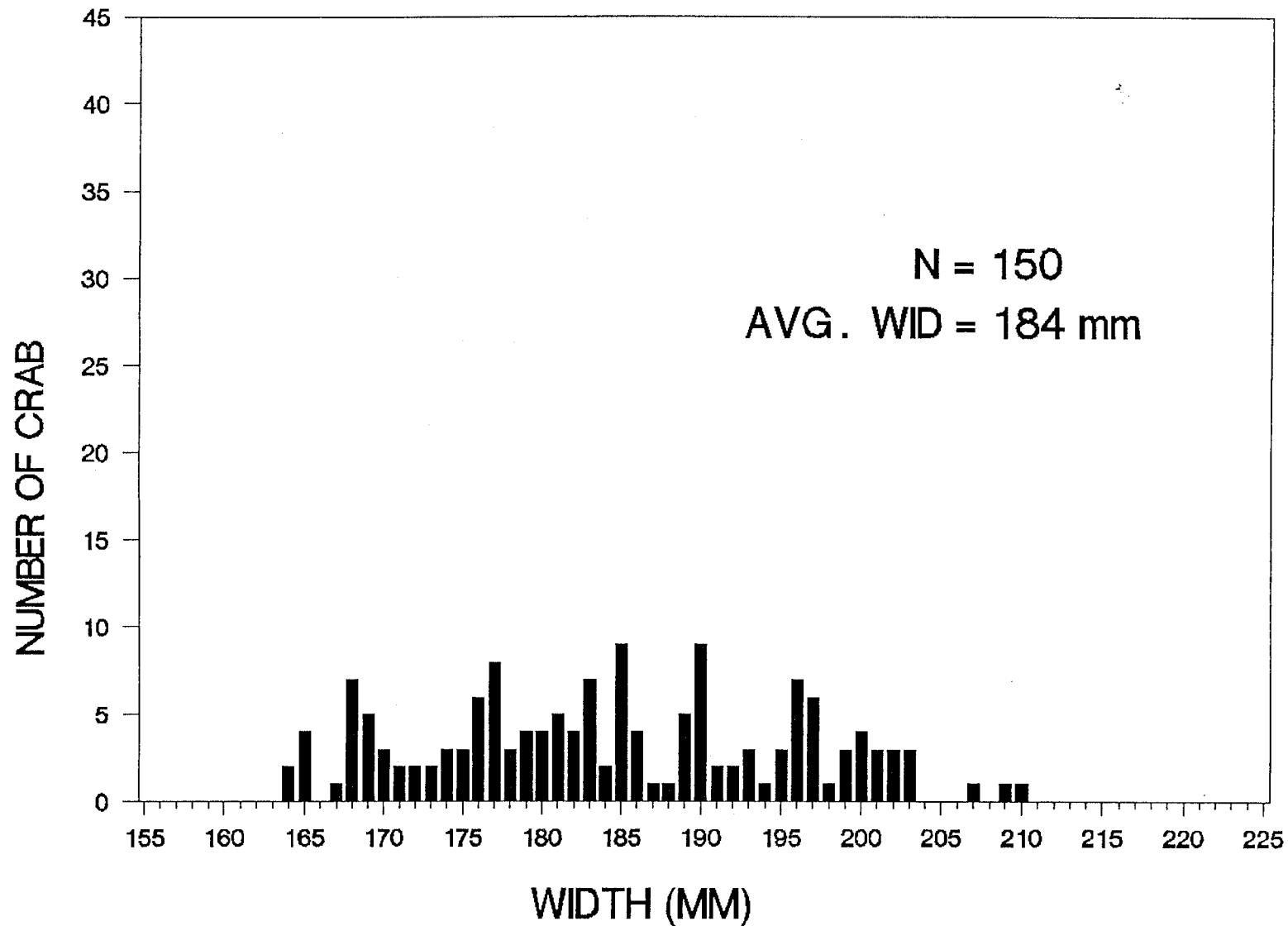


Figure 9. Width frequency of Dungeness crab sampled from the Eastside section during September.

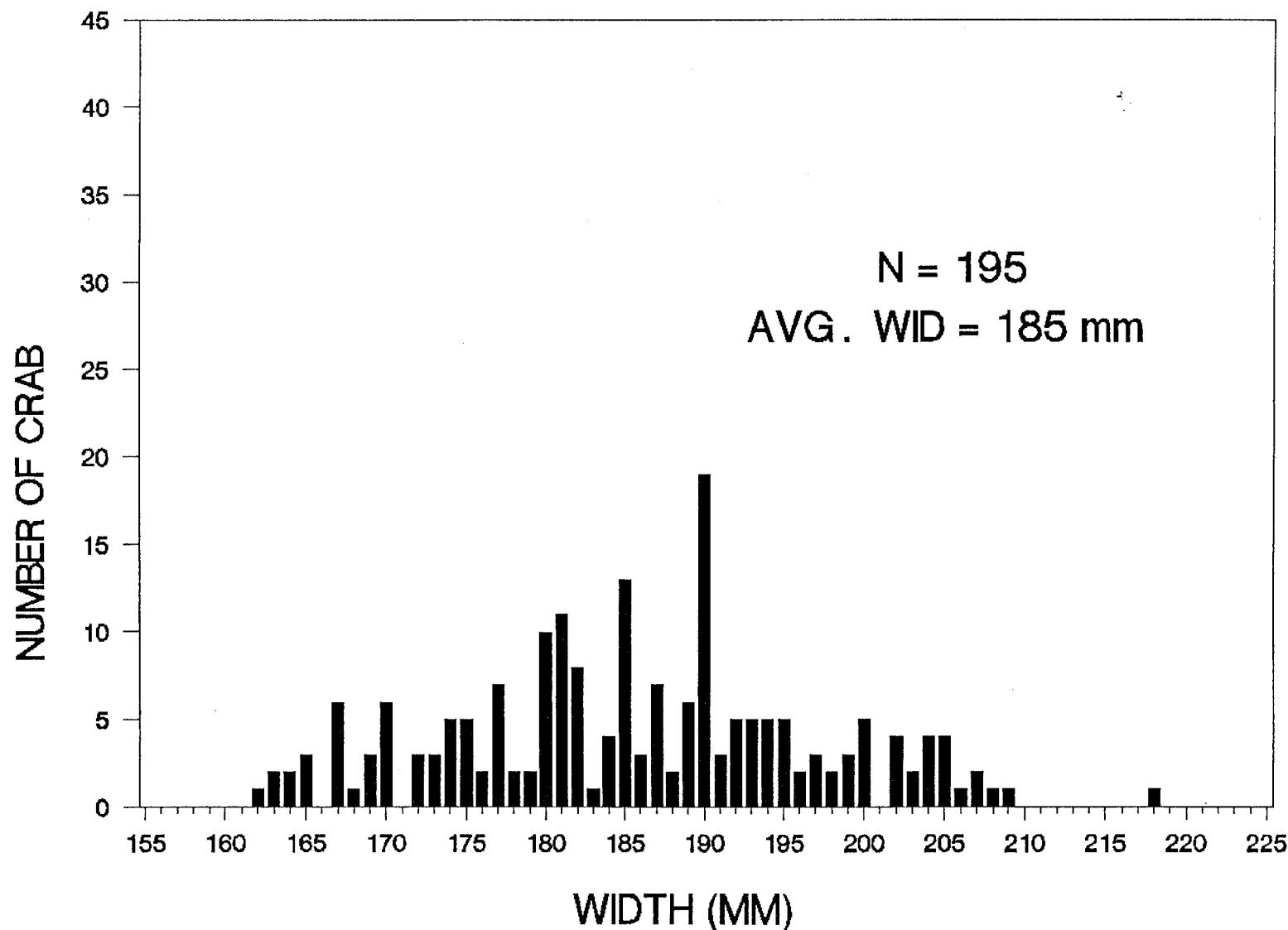


Figure 10.

Width frequency of Dungeness crab sampled from the Eastside section during October .

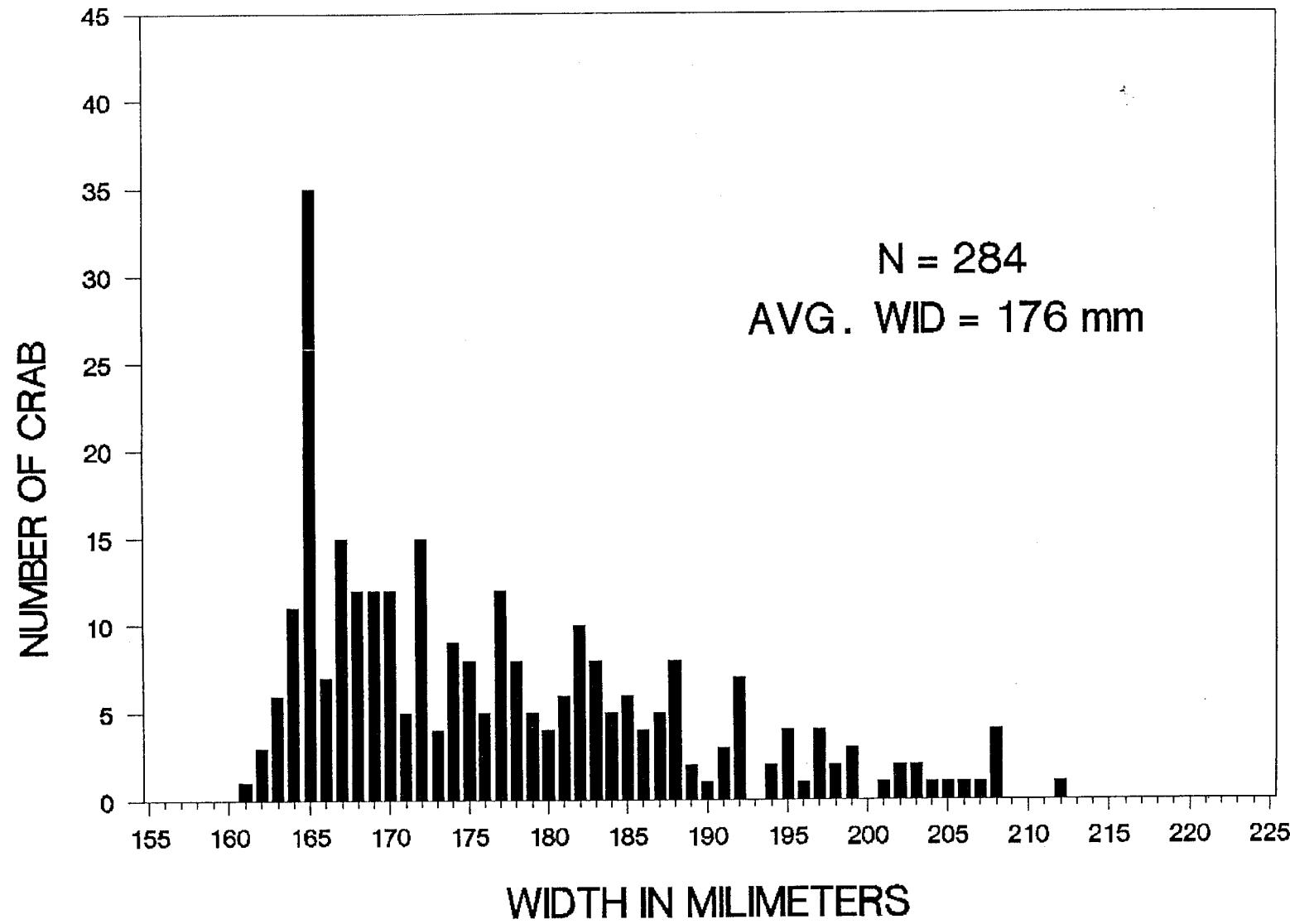


Figure 11.

Width frequency of Dungeness crab sampled from the Southeast section during June .

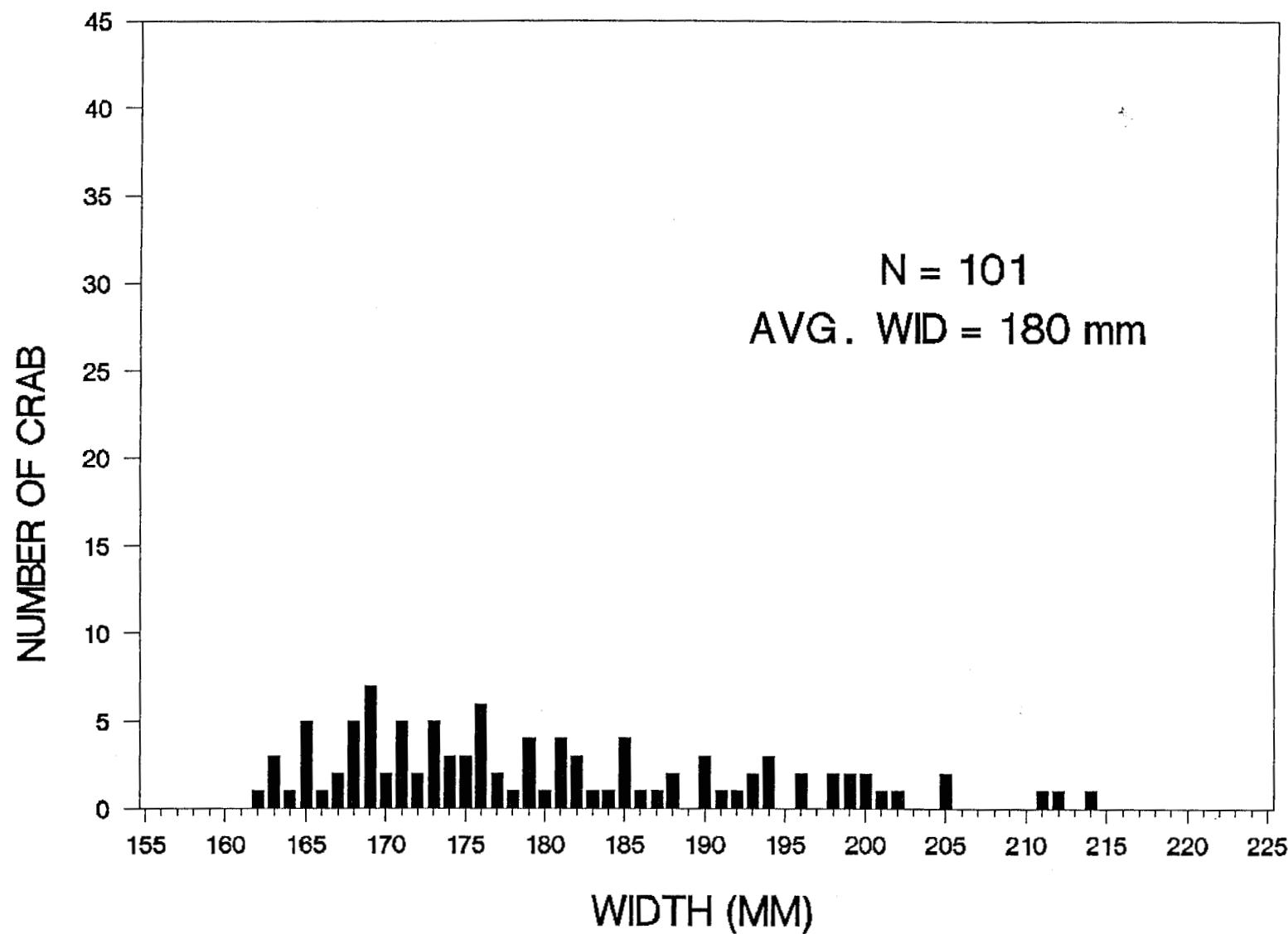


Figure 12. Width frequency of Dungeness crab sampled from the Southeast section during July .

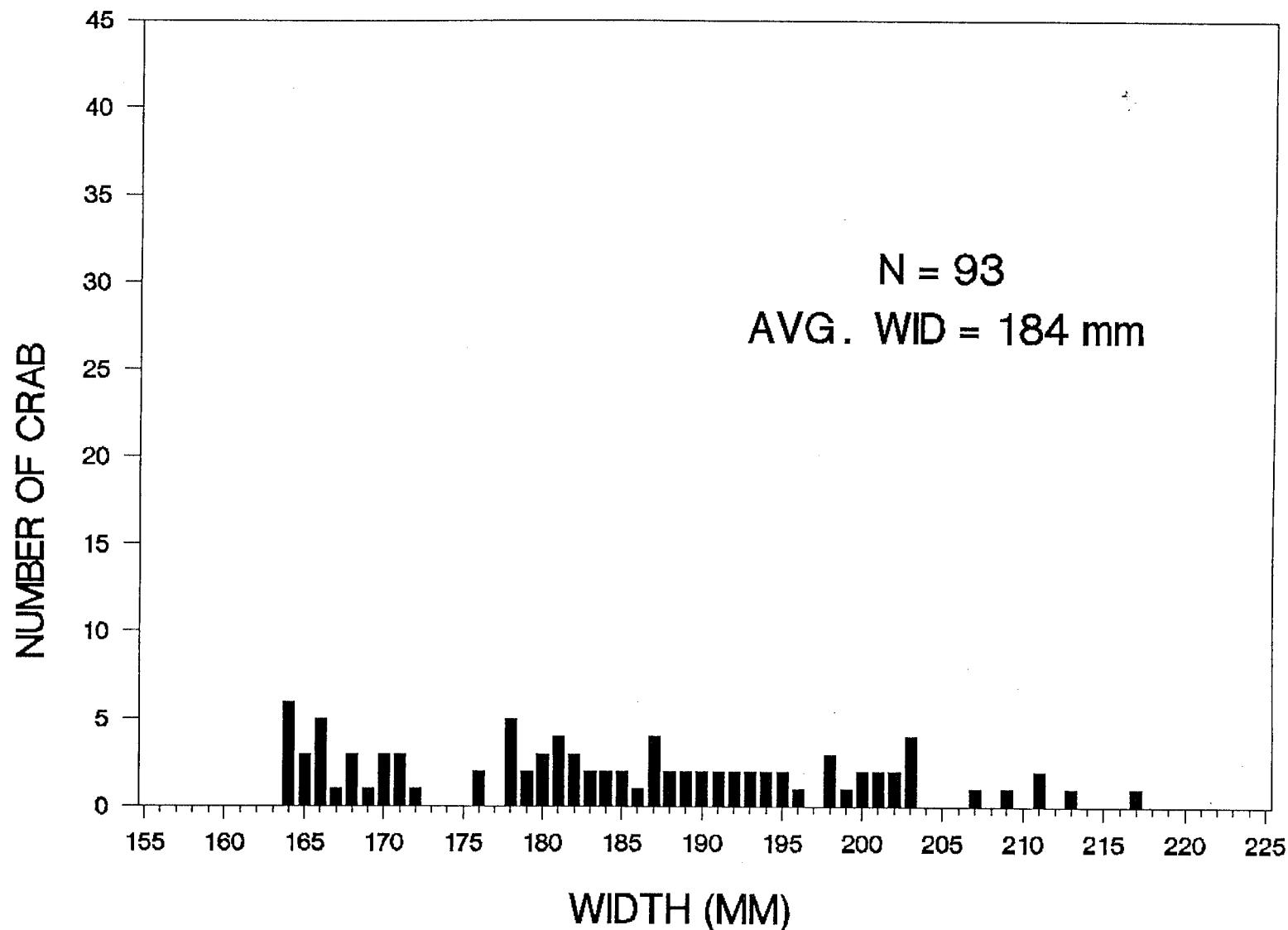


Figure 13.

Width frequency of Dungeness crab sampled from the Southeast section during August.

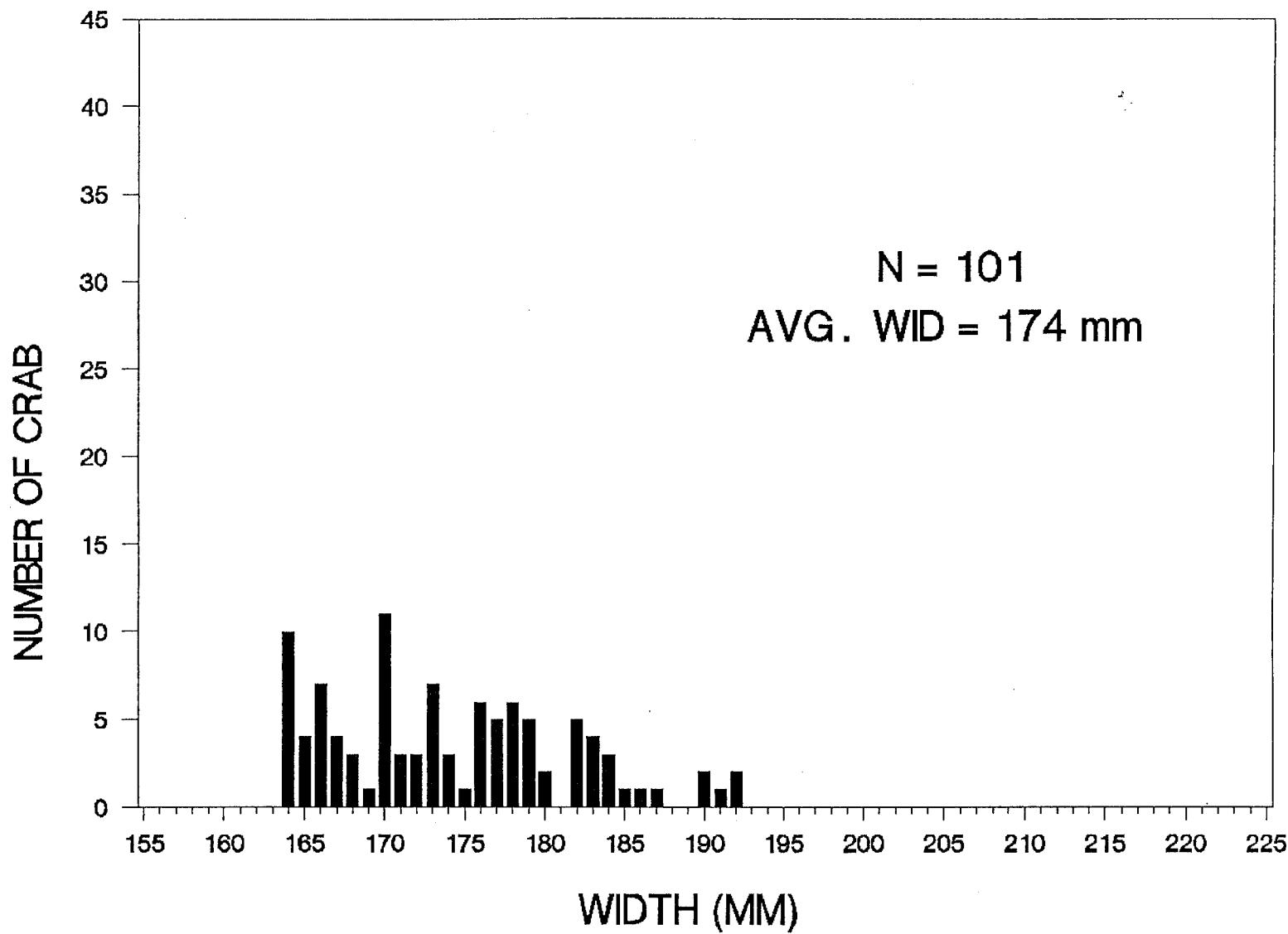


Figure 14. Width frequency of Dungeness crab sampled from the Southwest section during July .

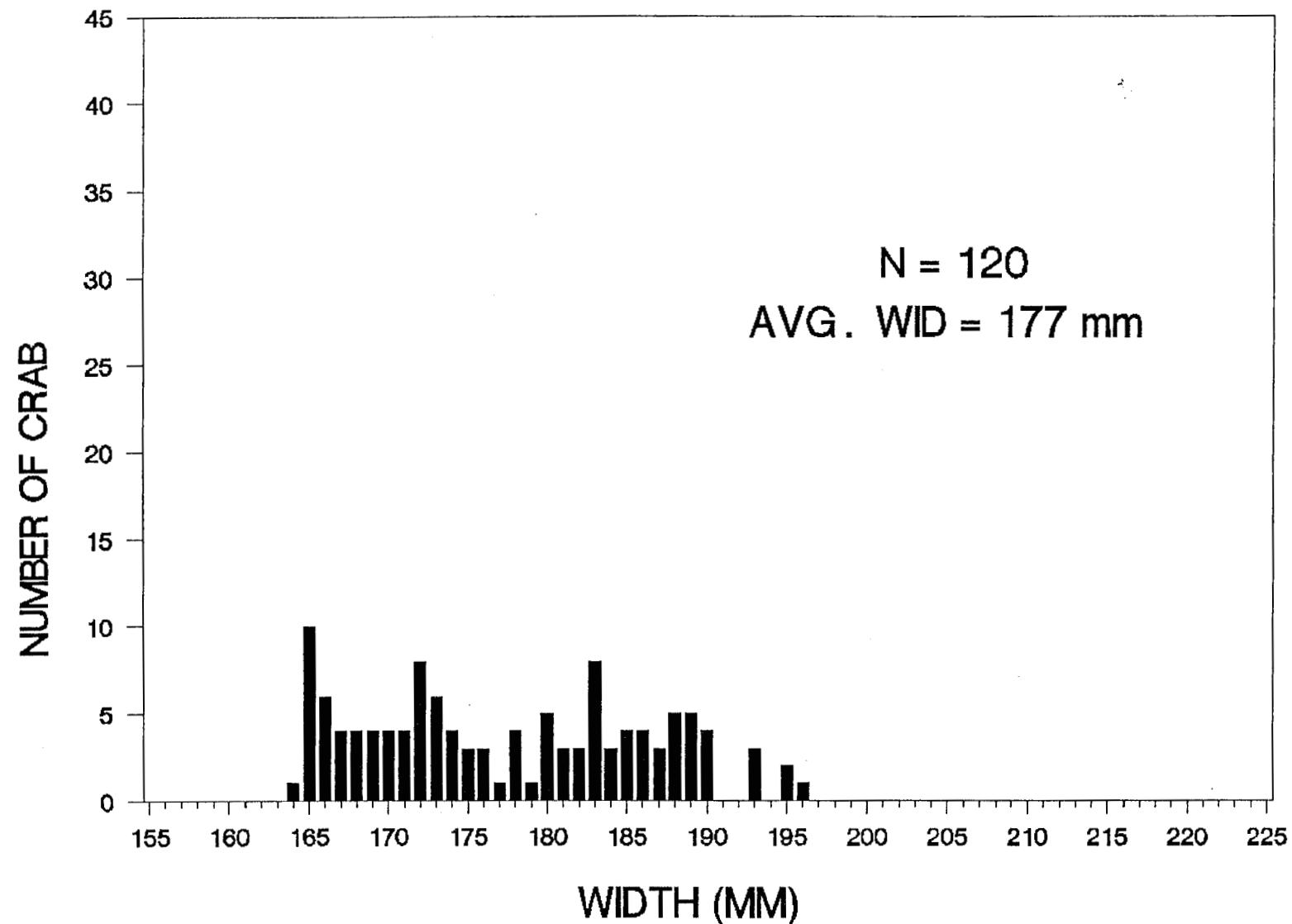


Figure 15. Width frequency of Dungeness crab sampled from the Westside section during May.

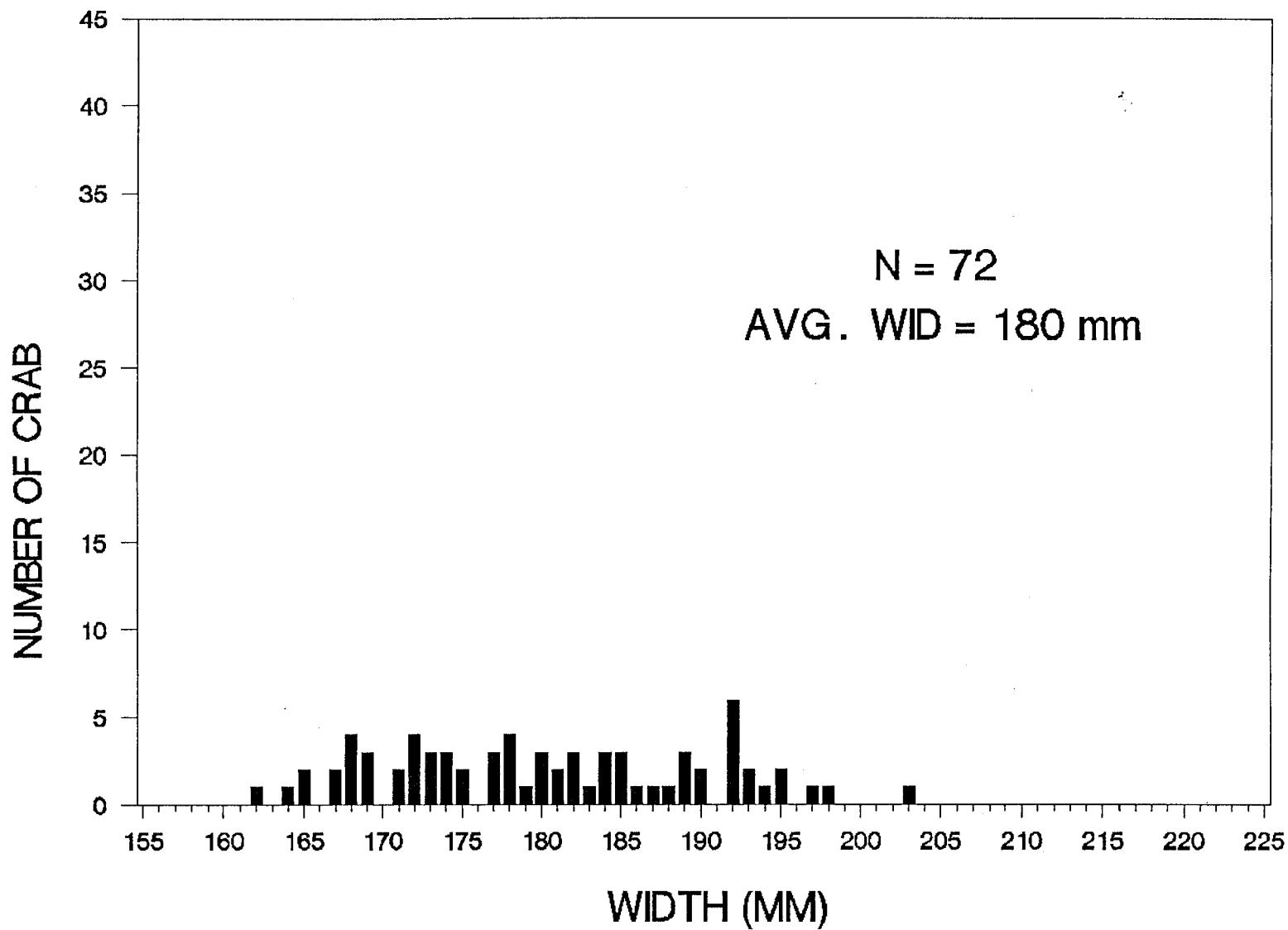


Figure 16. Width frequency of Dungeness crab sampled from the Westside section during June .

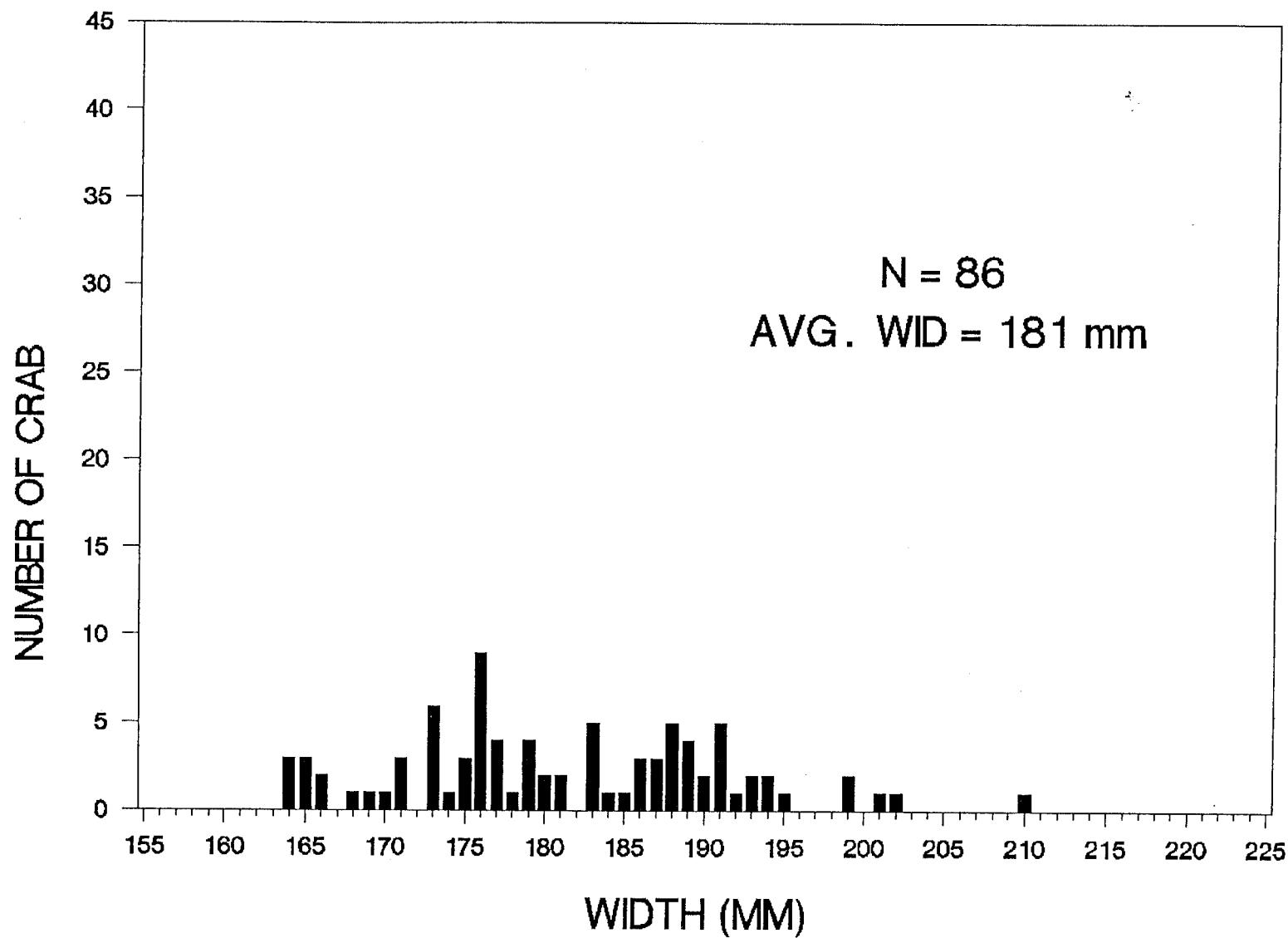


Figure 17. Width frequency of Dungeness crab sampled from the Westside section during July .

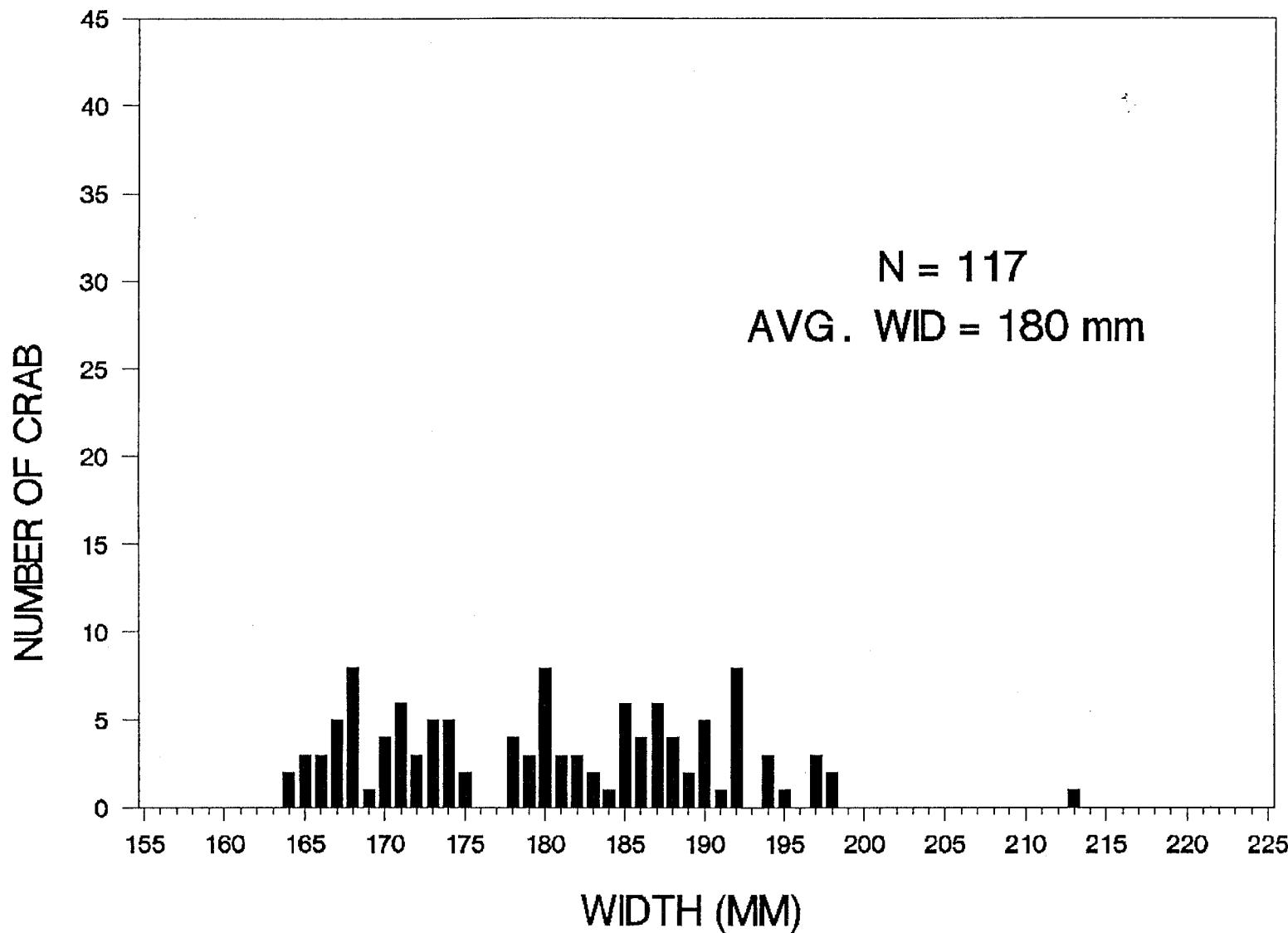


Figure 18. Width frequency of Dungeness crab sampled from the Westside section during August.

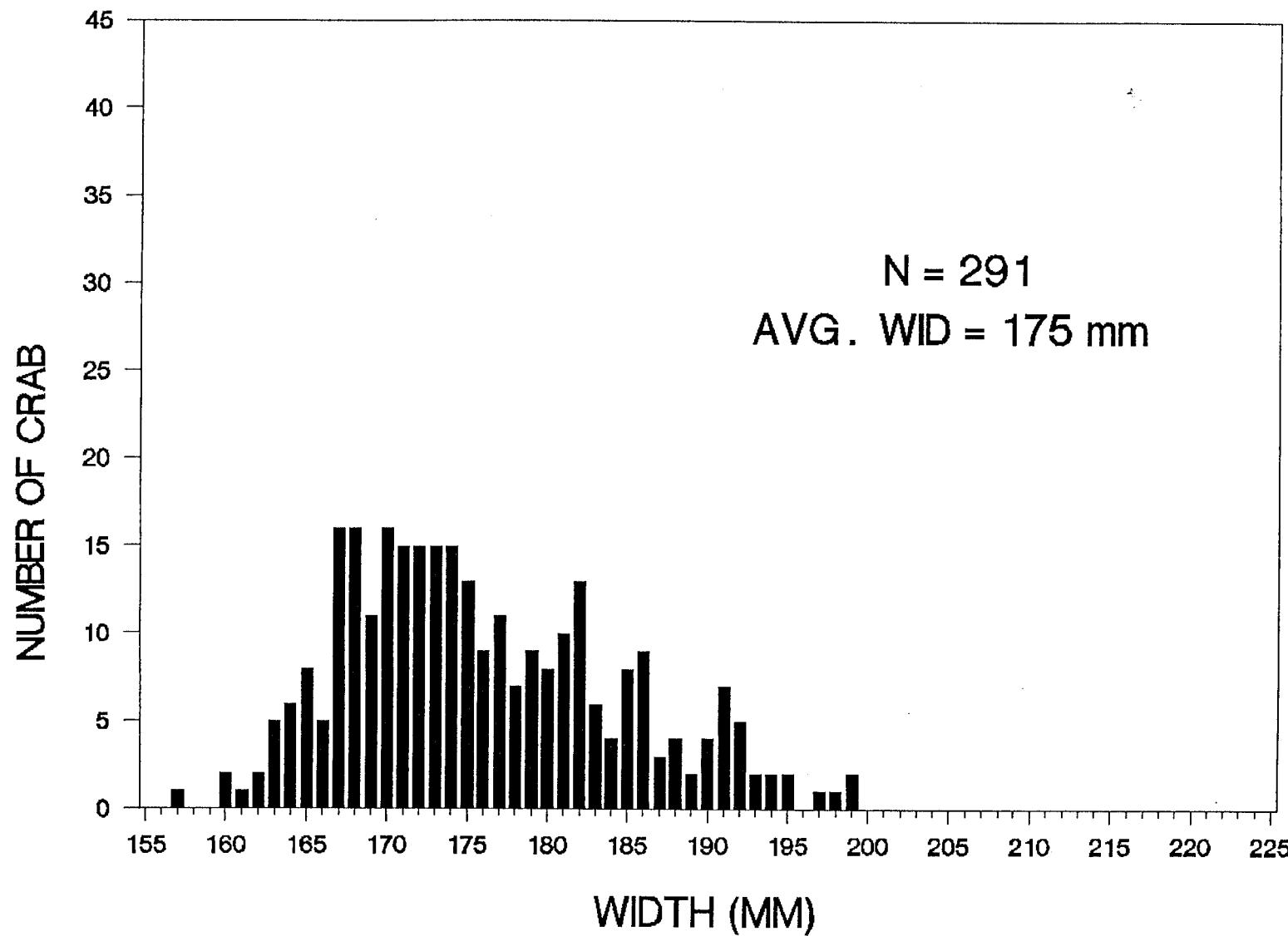


Figure 19. Width frequency of Dungeness crab sampled from the North Mainland section during August.

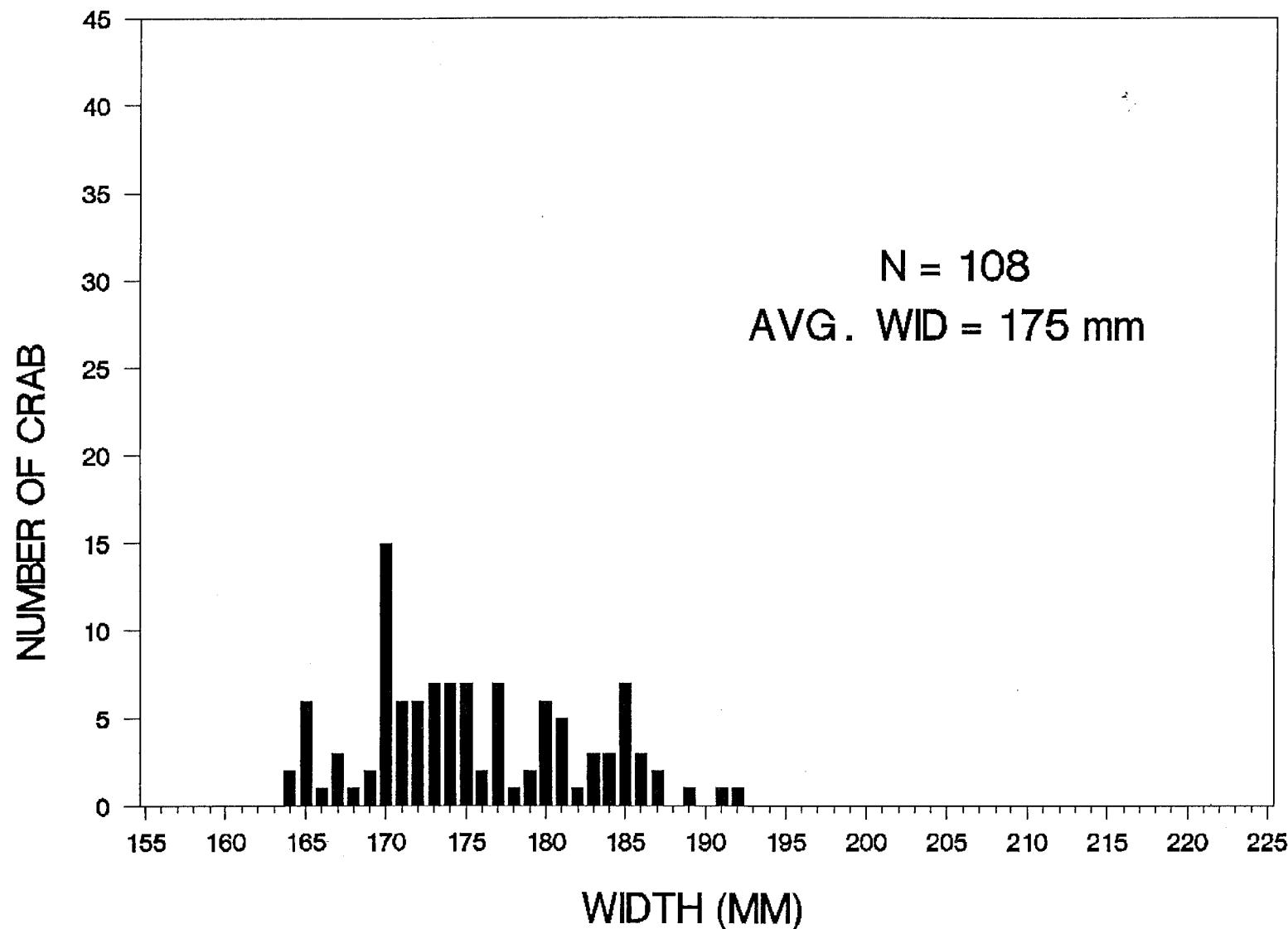


Figure 20. Width frequency of Dungeness crab sampled from the North Mainland section during September .

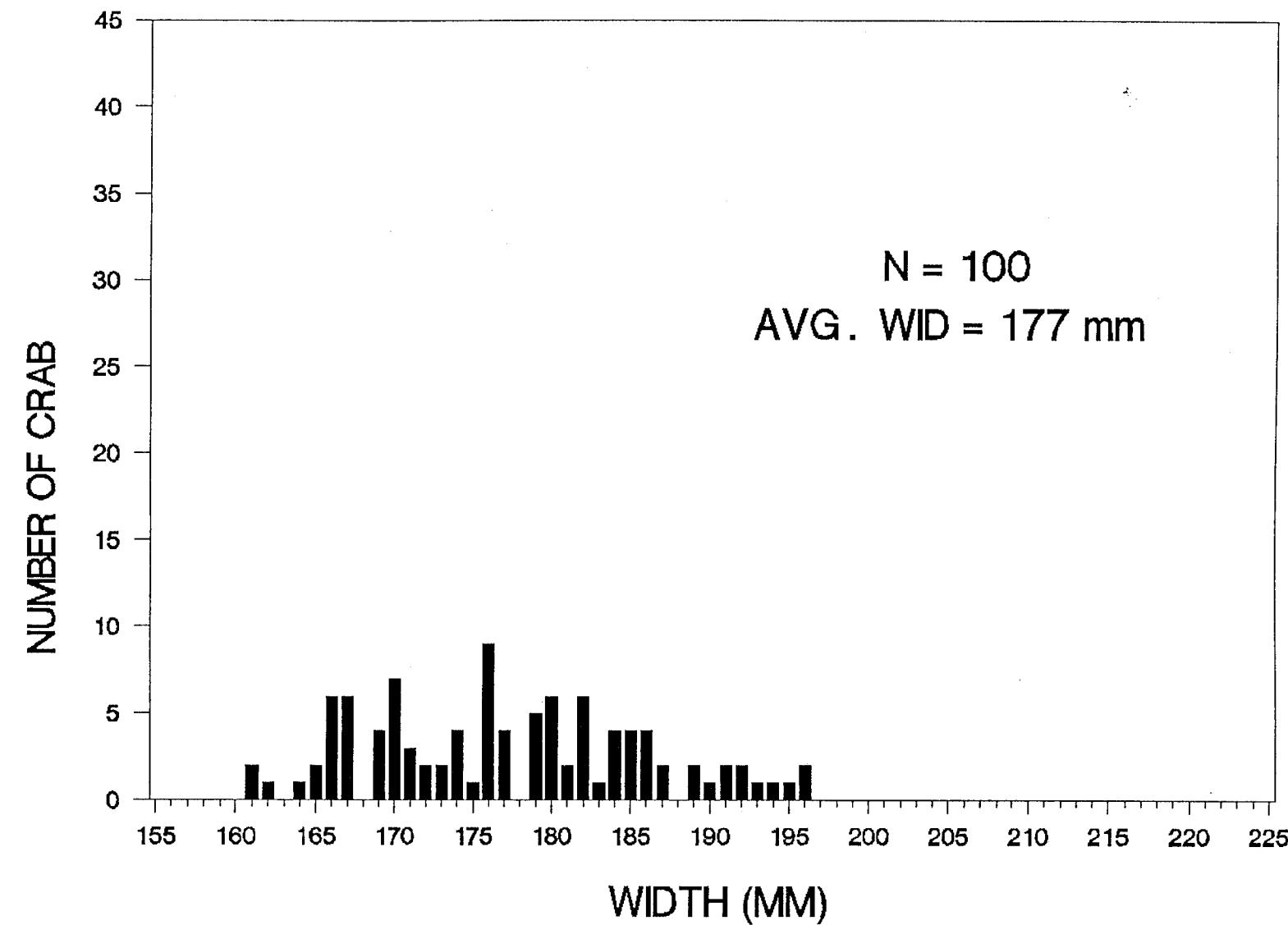


Figure 21. Width frequency of Dungeness crab sampled from the North Mainland section during October .

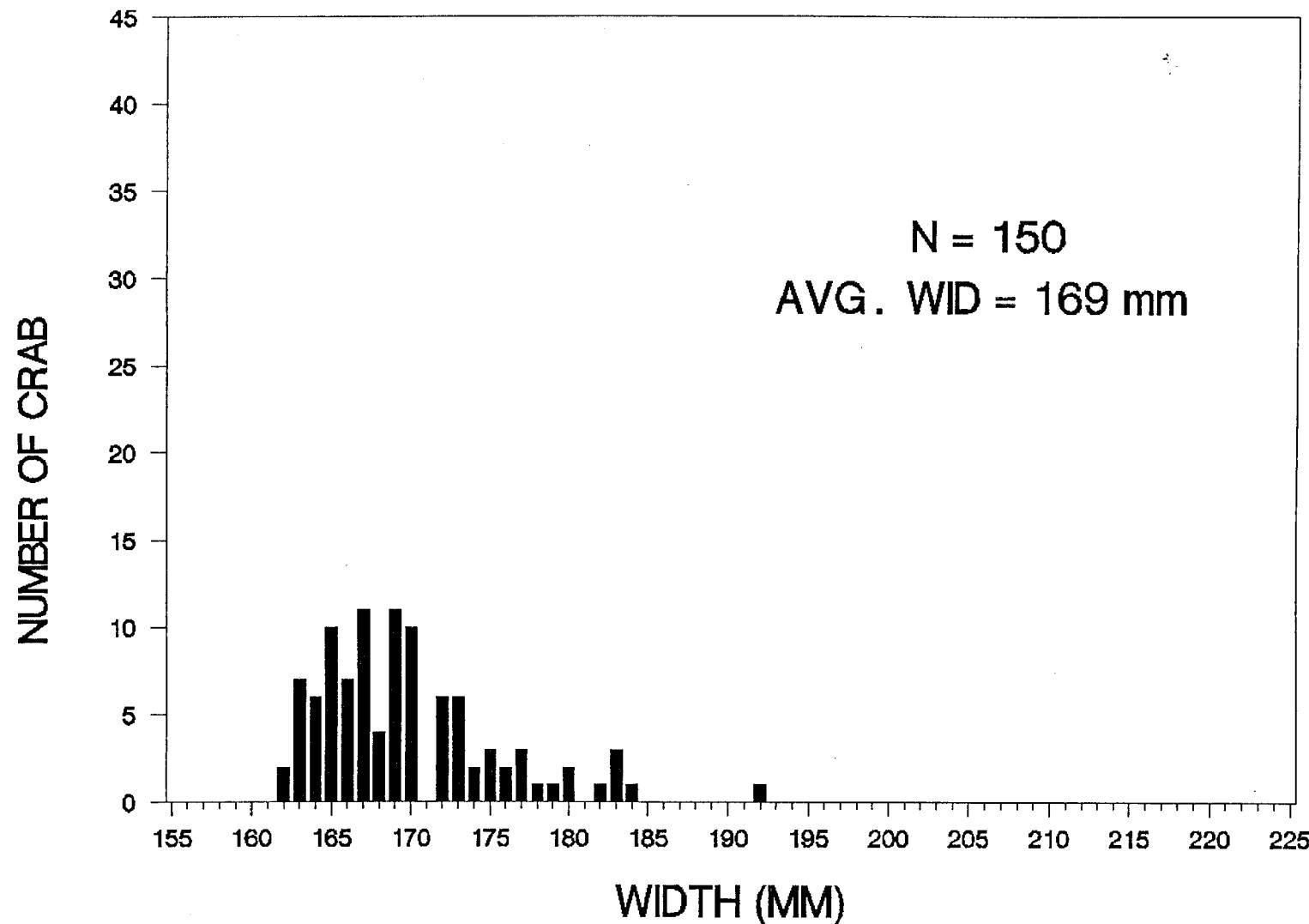


Figure 22. Width frequency of Dungeness crab sampled from the South Mainland section during September.

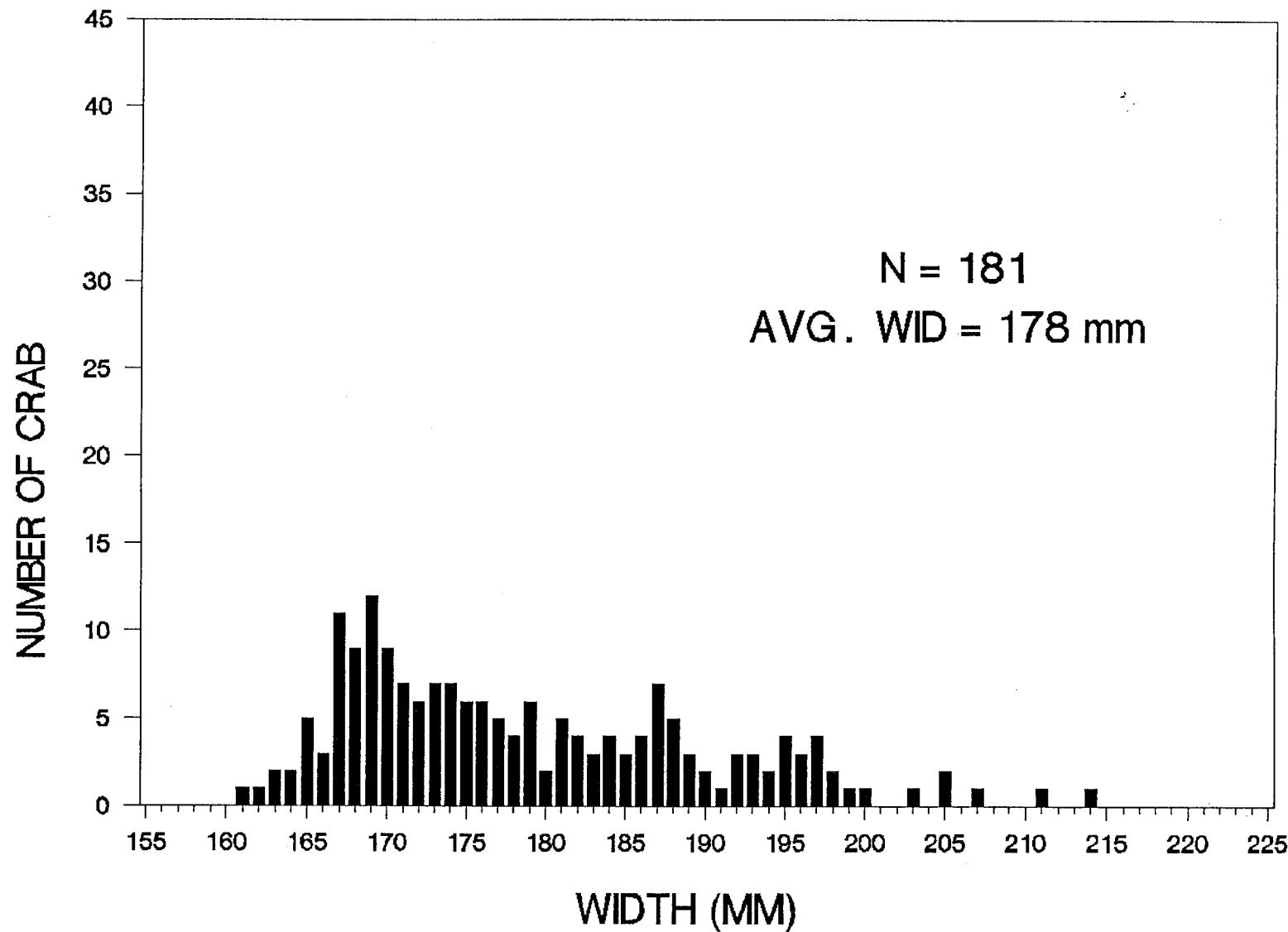


Figure 23. Width frequency of Dungeness crab sampled from the Northeast section during 1986.

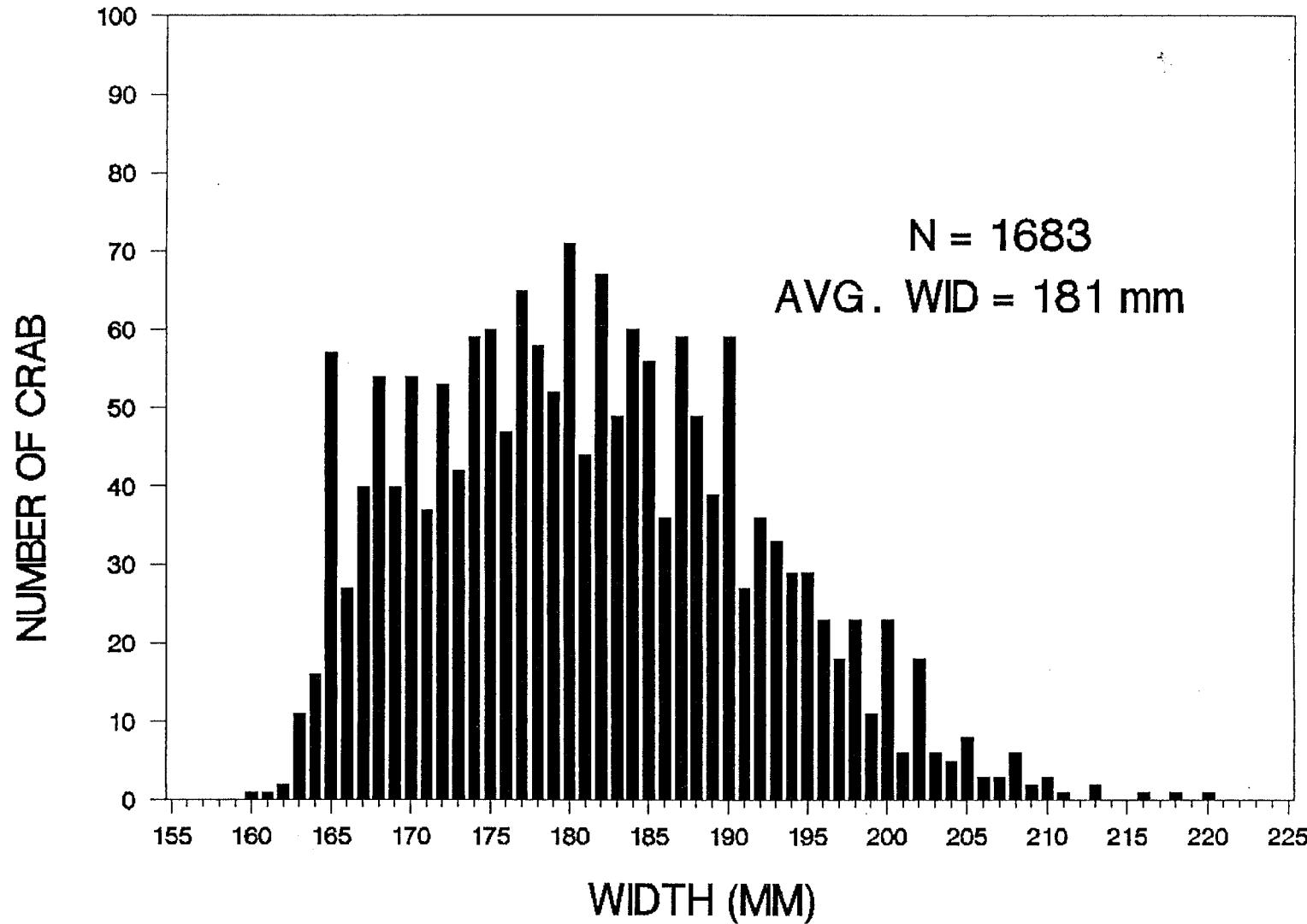


Figure 24. Width frequency of Dungeness crab sampled from the Eastside section during 1986.

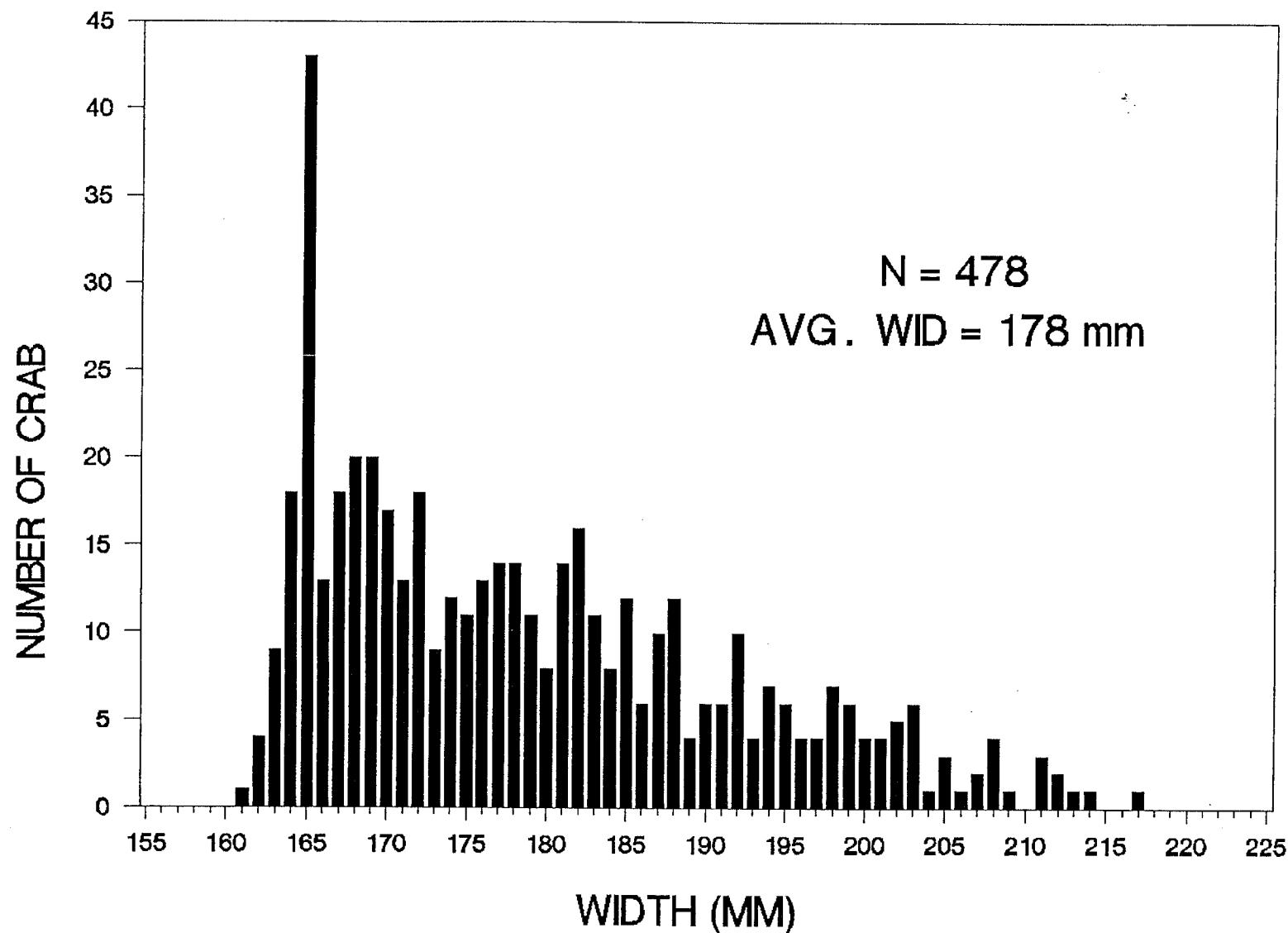


Figure 25.

Width frequency of Dungeness crab sampled from the Southeast section during 1986.

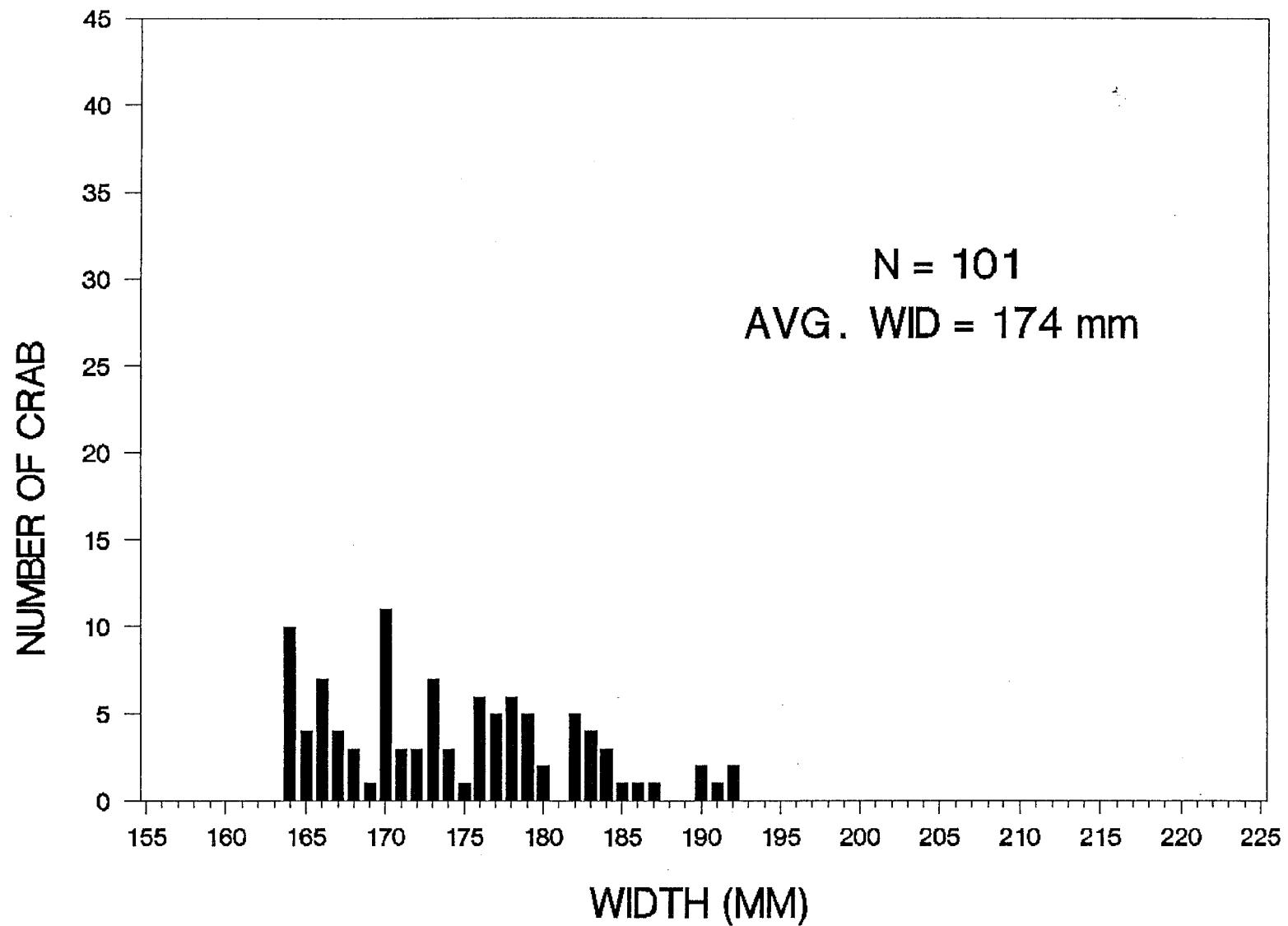


Figure 26. Width frequency of Dungeness crab sampled from the Southwest section during 1986.

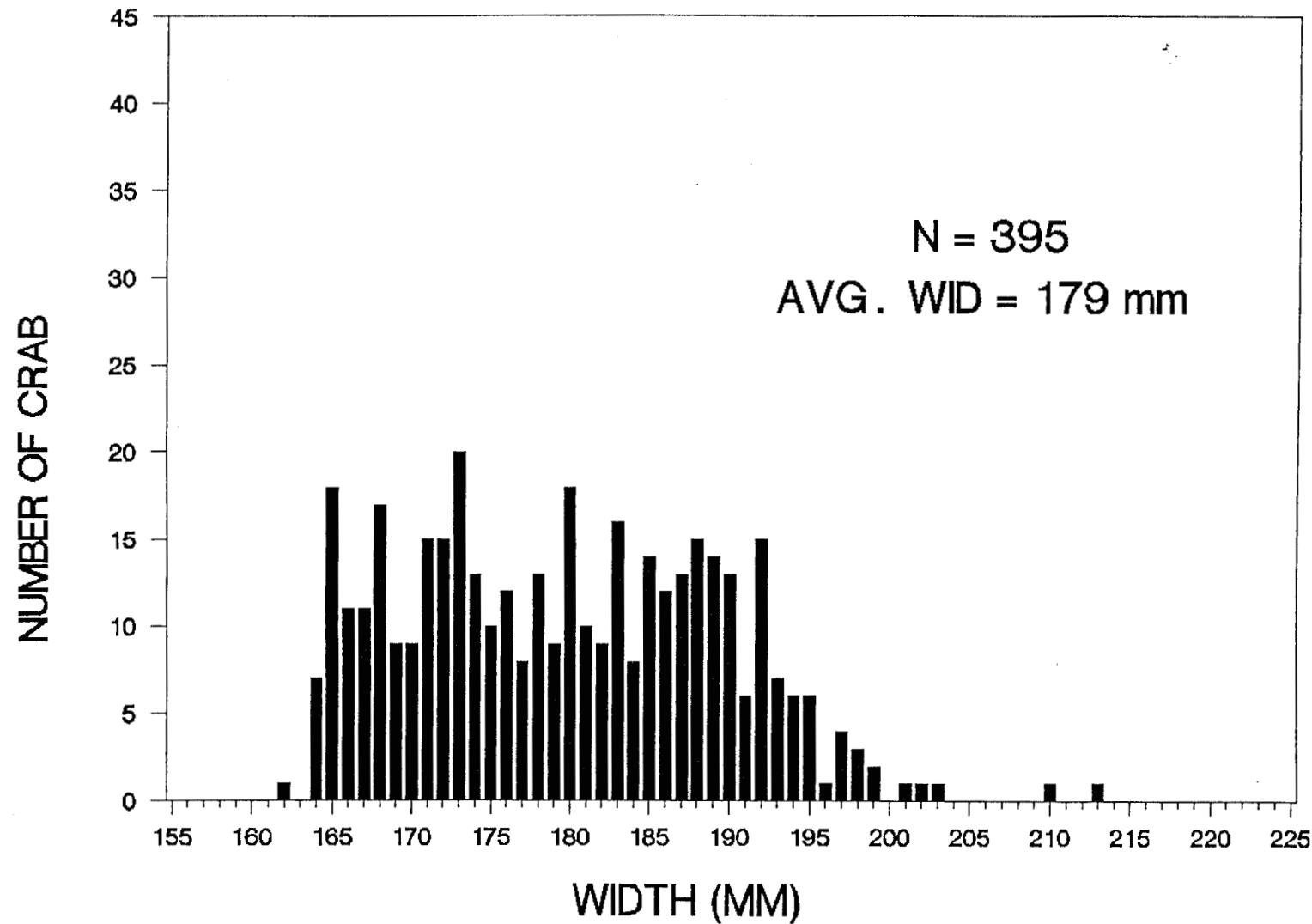


Figure 27. Width frequency of Dungeness crab sampled from the Westside section during 1986.

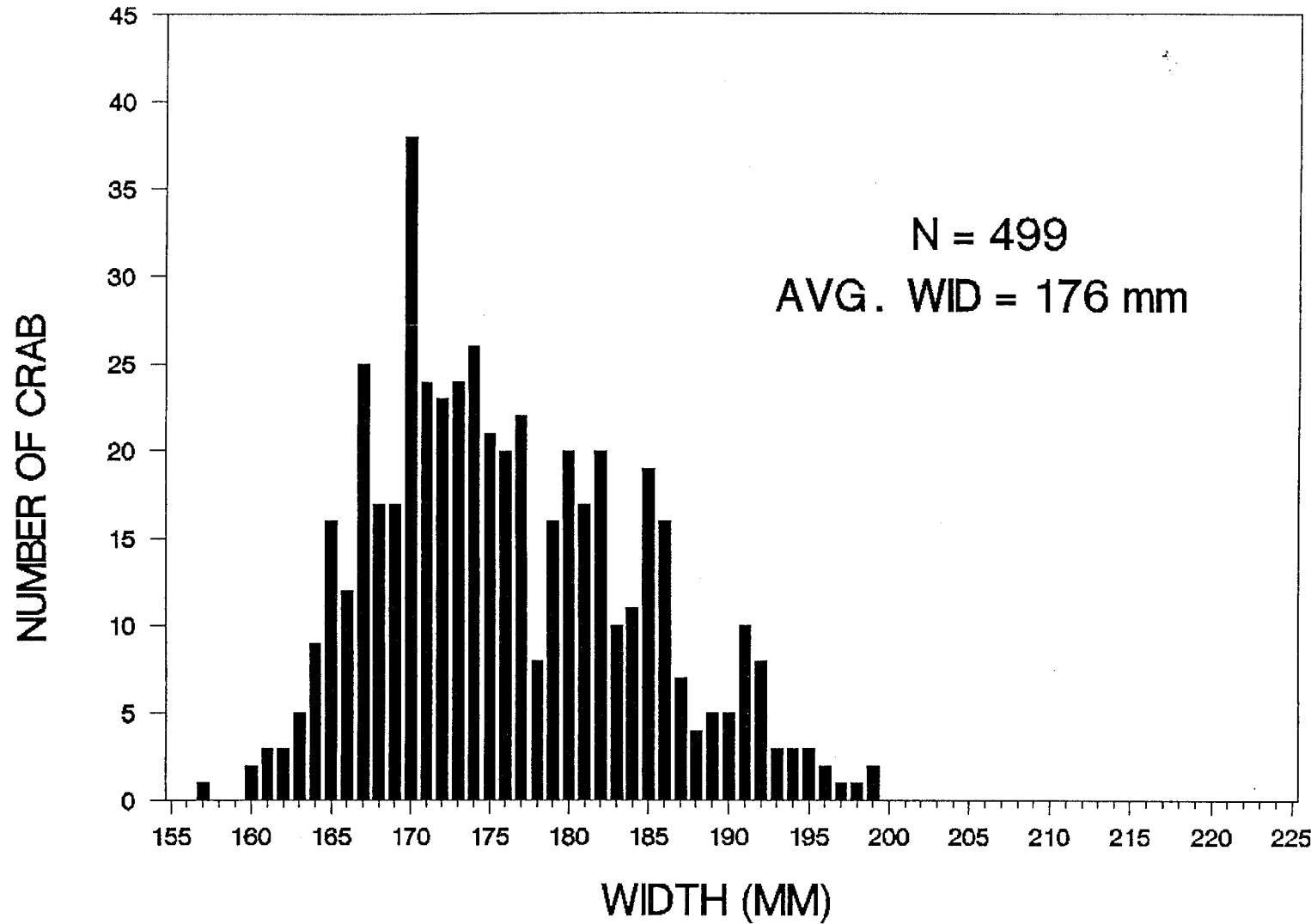


Figure 23. Width frequency of Dungeness crab sampled from the North Mainland section during 1986.

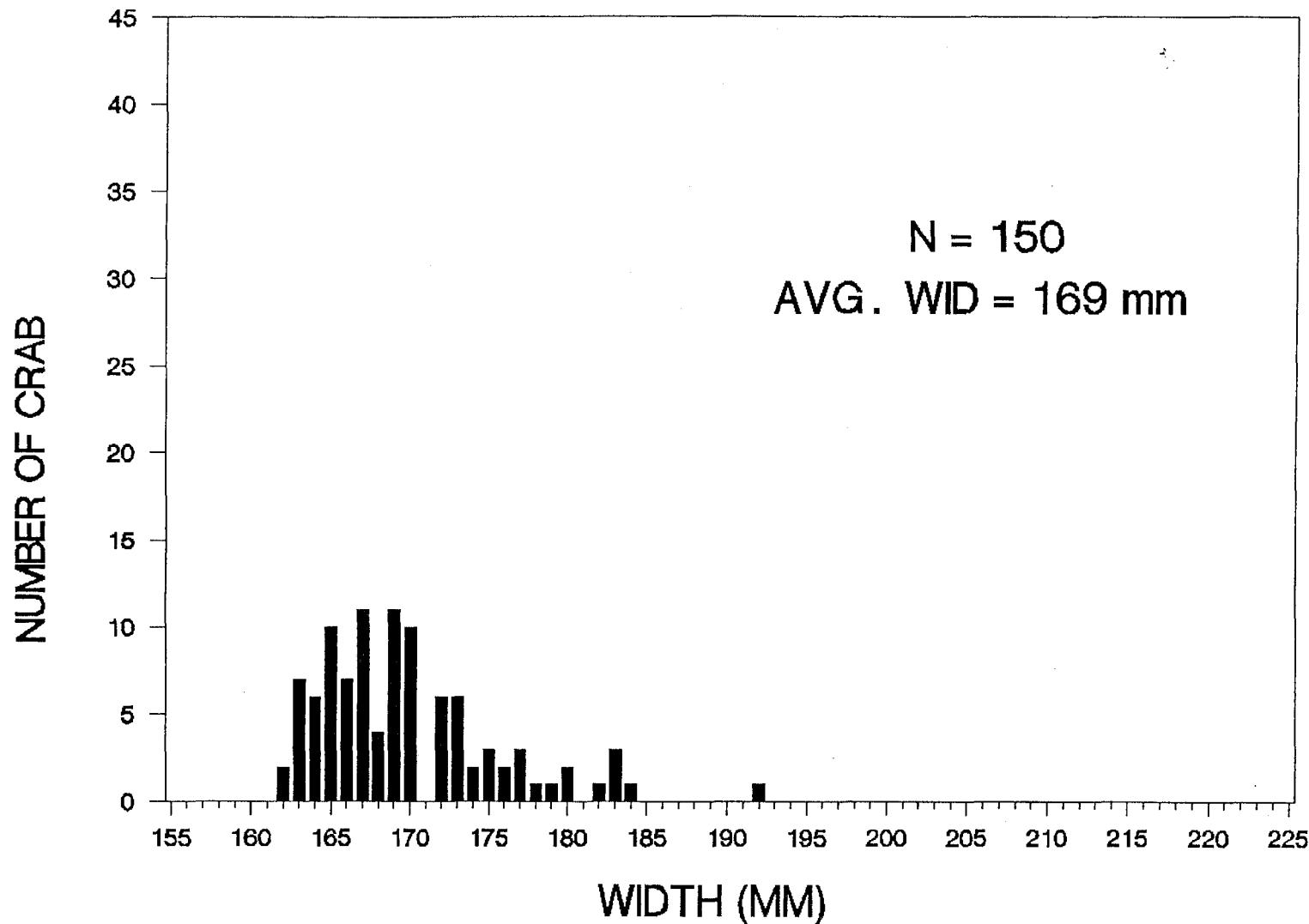


Figure 29. Width frequency of Dungeness crab sampled from the South Mainland section during 1986.

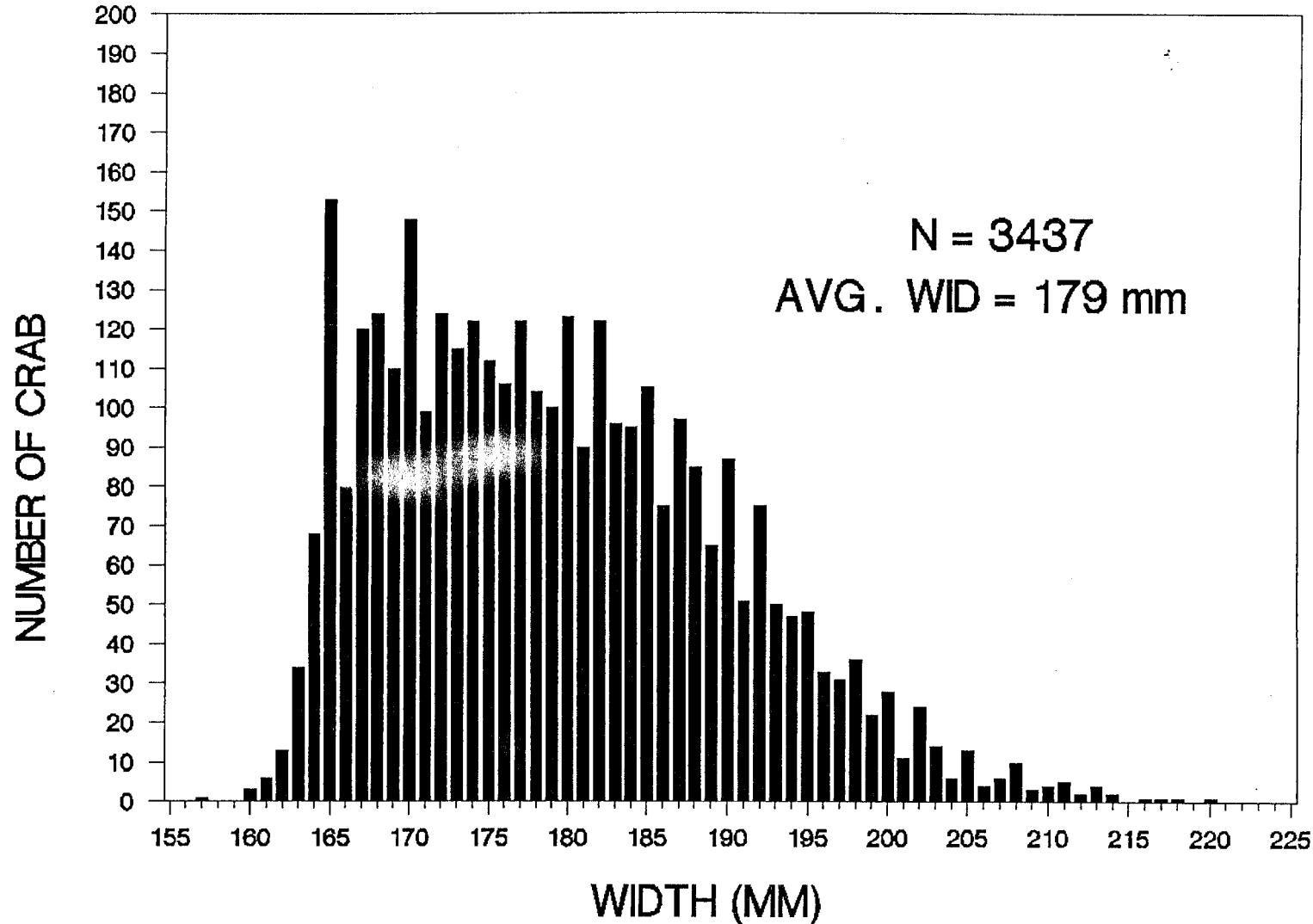


Figure 30. Width frequency of Dungeness crab sampled from the Kodiak district during 1986.

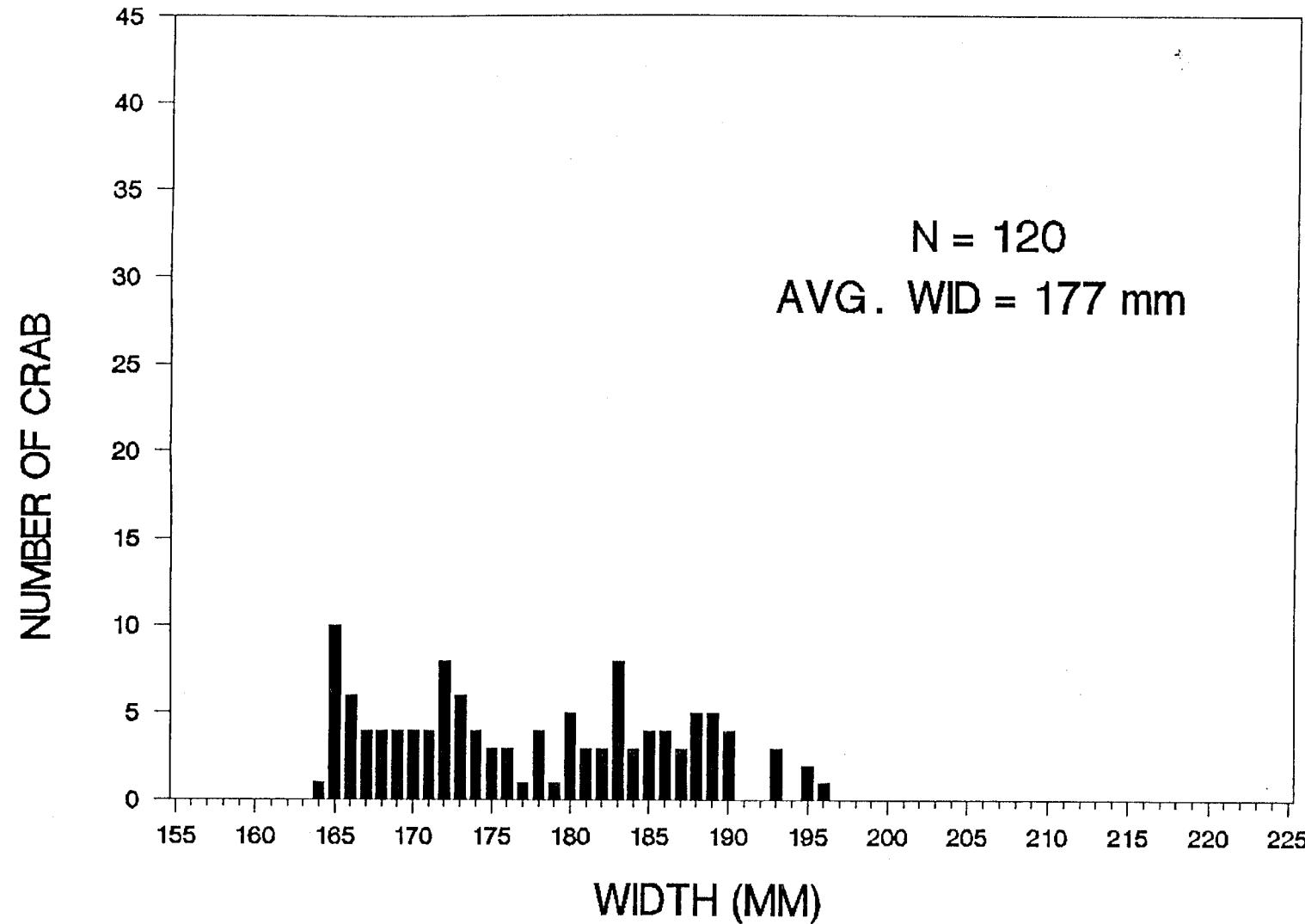


Figure 31.

Width frequency of Dungeness crab sampled from the Kodiak district during May, 1986.

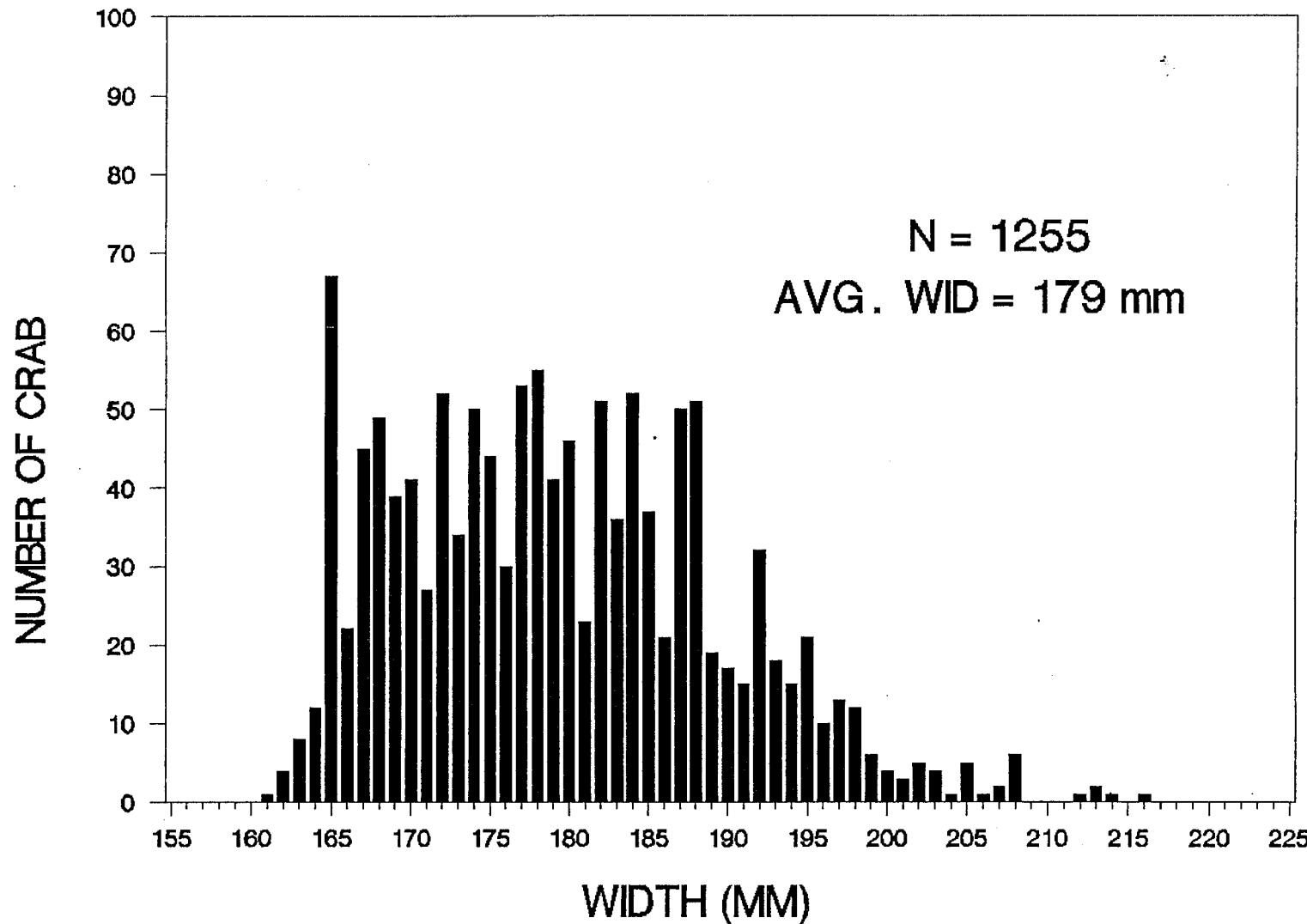


Figure 32. Width frequency of Dungeness crab sampled from the Kodiak district during June, 1986.

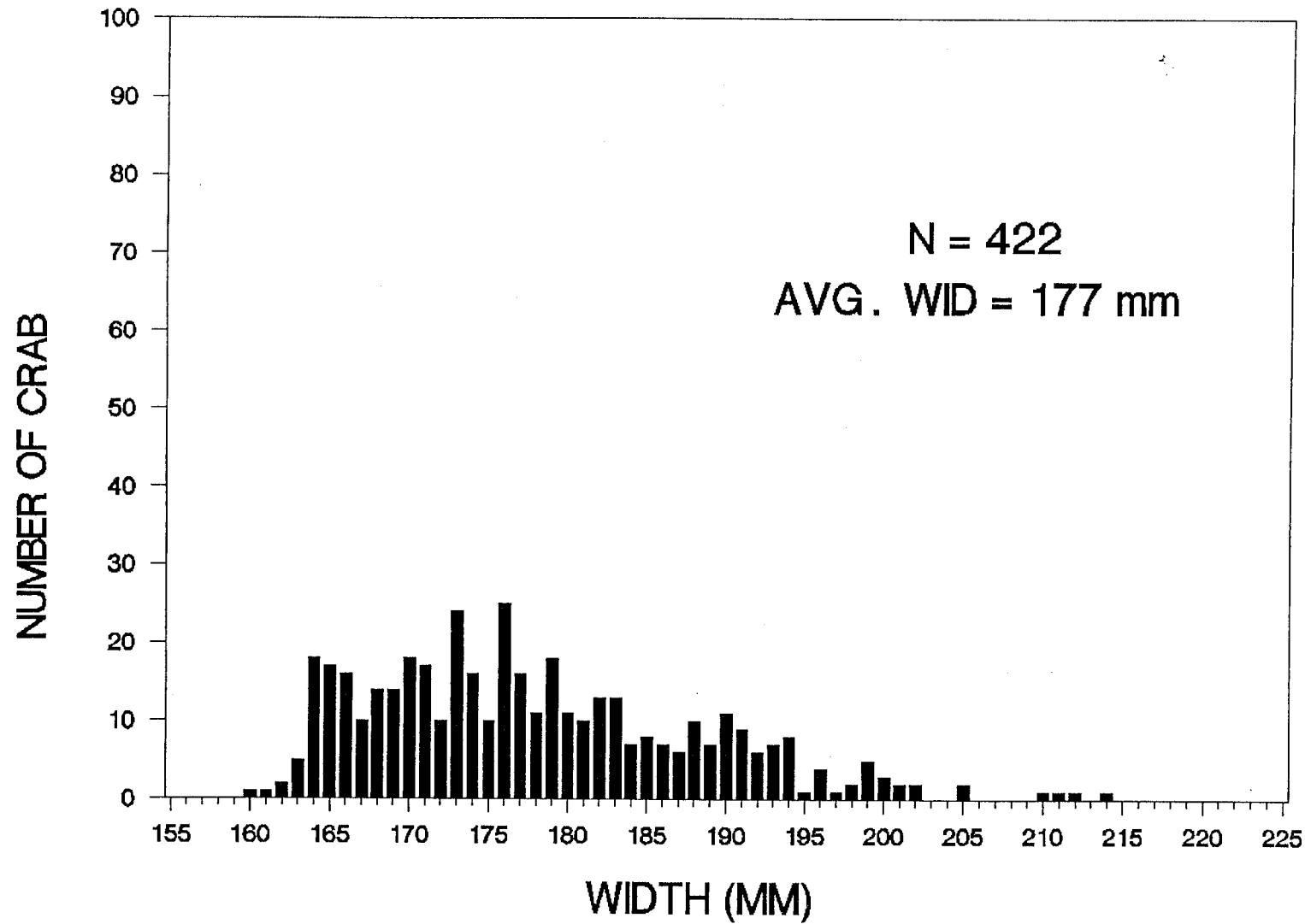


Figure 33. Width frequency of Dungeness crab sampled from the Kodiak district during July, 1986.

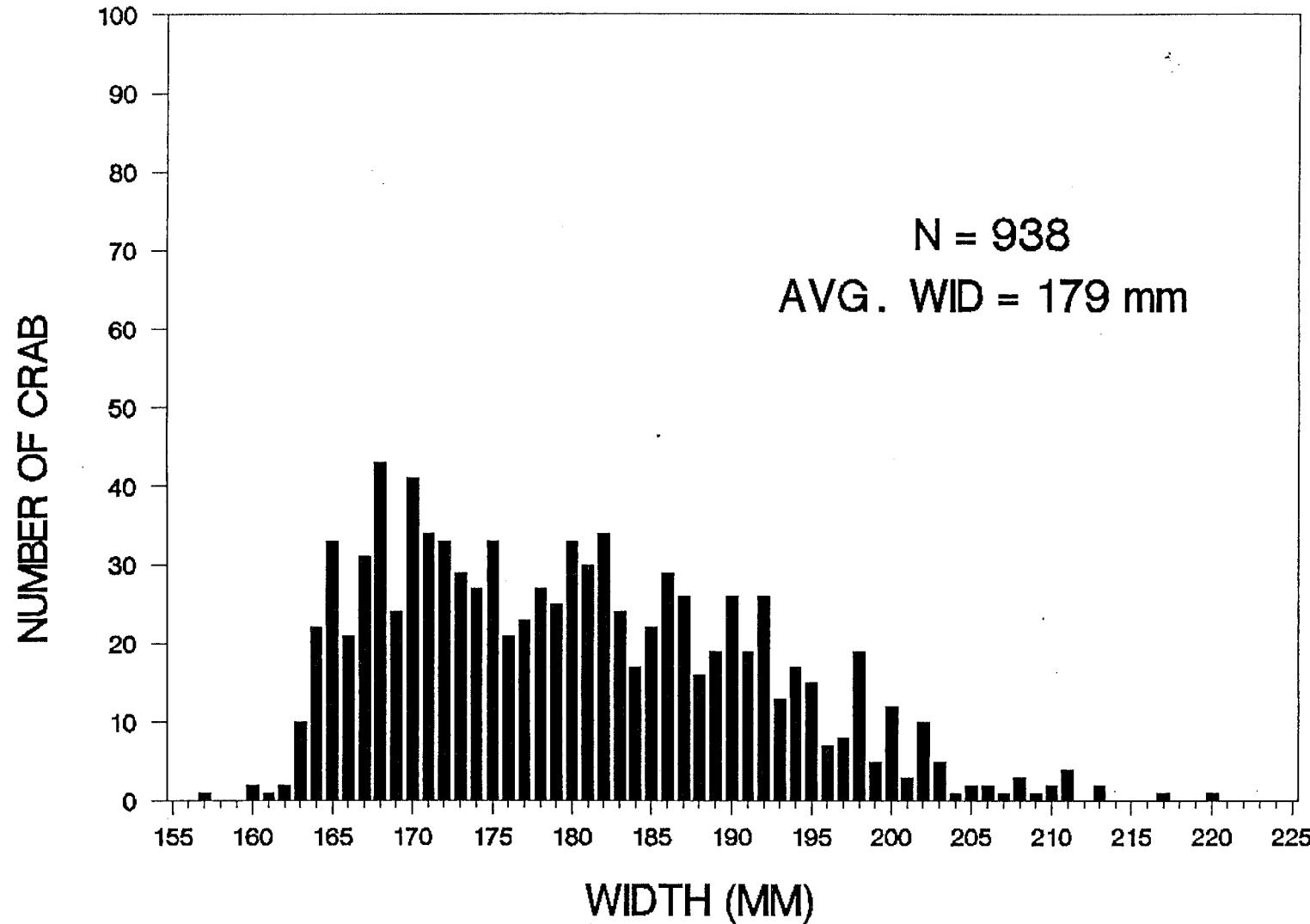


Figure 34. Width frequency of Dungeness crab sampled from the Kodiak district during August, 1986.

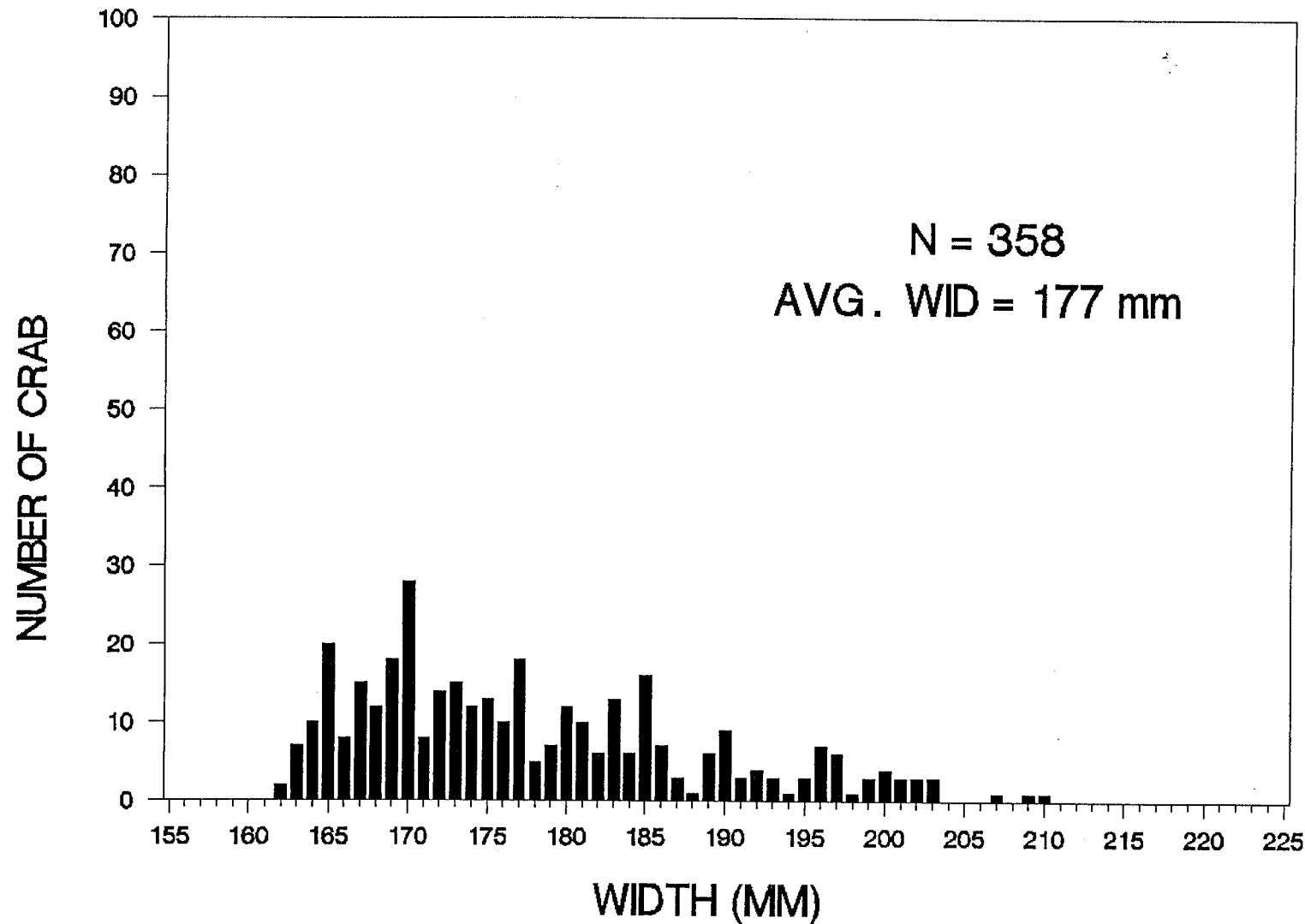


Figure 35. Width frequency of Dungeness crab sampled from the Kodiak district during September, 1986.

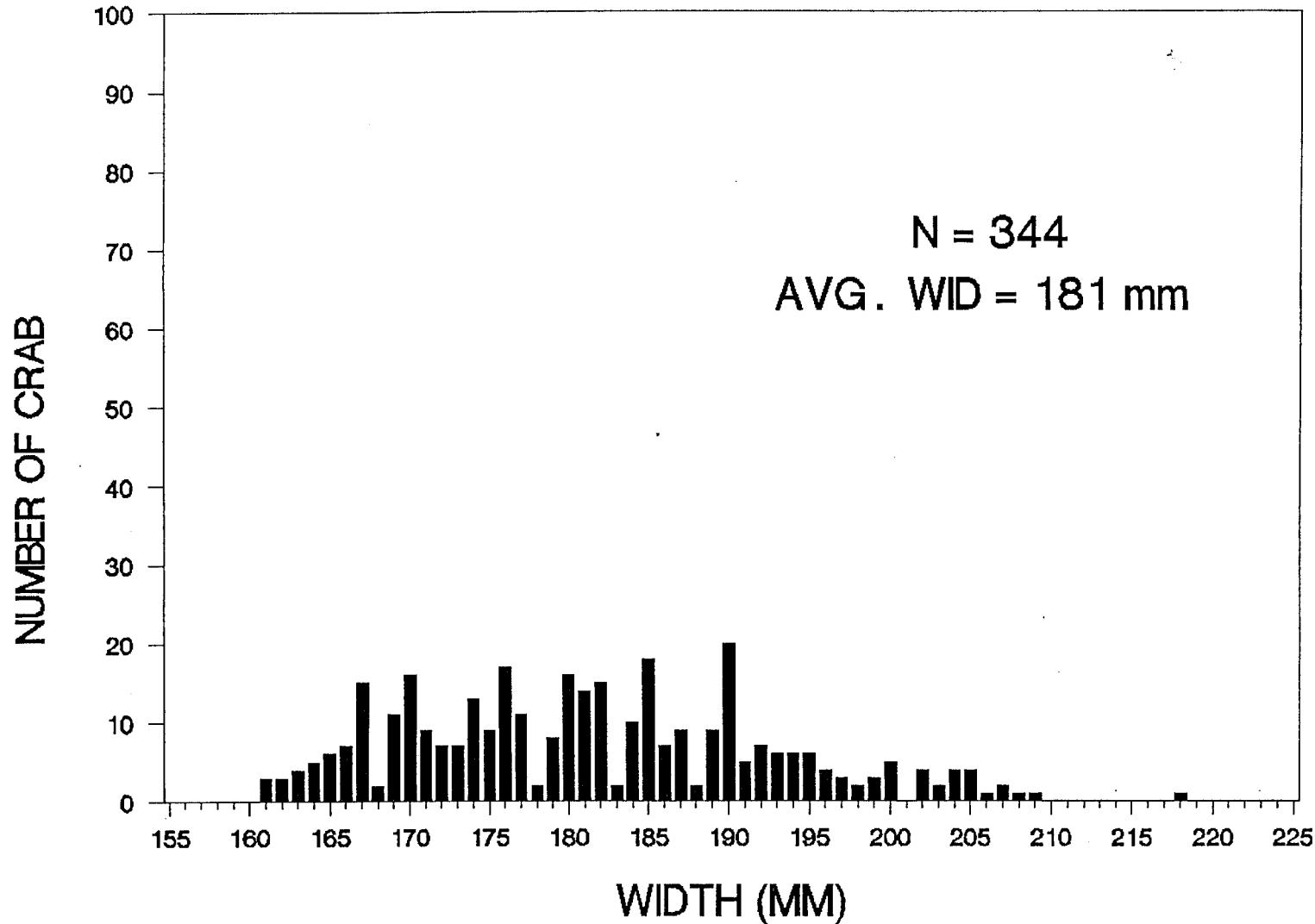


Figure 36. Width frequency of Dungeness crab sampled from the Kodiak district during October, 1986.

Table 4. Percent of recruit Dungeness crab in the sample by fishing section and period from the Kodiak District during 1986.

Month	FISHING SECTION								TOTAL
	Northeast	Eastside	Southeast	Southwest	Westside	North Mainland	South Mainland		
May	-	-	-	-	83	-	-		83
June	26	88	84	-	60	-	-		82
July	-	72	82	92	86	-	-		82
August	78	73	72	-	83	83	-		78
September	-	75	-	-	-	94	95		86
October	100	71	-	-	-	85	-		79
TOTAL	62	80	82	92	79	86	95		81

Sixteen hundred and fifty-five crab were weighed. This was 48% of the crab sampled for the entire district and ranged from 22 to 100% of the sample by section. Table 5 lists the regression points by section that describe the commercial Dungeness crab weight-width relationships for new-shell animals. Figures 37 through 43 shows the weight-width relationships by section with individual new-shelled animals plotted.

All individual data presented in this report are available on diskettes labelled DUNCATCH-AM86 in the Regional data bank.

Table 5. 1986 Kodiak District commercial Dungeness weight-width relationship regression points by fishing section.

Width (mm)	FISHING SECTION						
	N. E.	E.	S. E.	S. W. WT. (GRAMS)	W.	N. M.	S. M.
160	614.58	658.16	655.19	667.77	665.08	653.08	658.79
161	627.34	671.06	668.33	680.55	677.57	665.37	669.48
162	640.29	684.12	681.65	693.49	690.23	677.81	680.28
163	653.42	697.36	695.15	706.60	703.03	690.40	691.18
164	666.73	710.77	708.83	719.88	716.00	703.15	702.19
165	680.24	724.35	722.70	733.32	729.12	716.06	713.31
166	693.93	738.11	736.75	746.93	742.40	729.12	724.53
167	707.81	752.05	750.98	760.71	755.84	742.35	735.87
168	721.89	766.16	765.41	774.65	769.44	755.73	747.31
169	736.16	780.45	780.02	788.77	783.21	769.26	758.85
170	750.63	794.92	794.83	803.06	797.13	782.96	770.51
171	765.29	809.58	809.82	817.52	811.23	796.83	782.28
172	780.15	824.41	825.01	832.16	825.48	810.85	794.15
173	795.21	839.43	840.39	846.97	839.90	825.04	806.14
174	810.47	854.64	855.97	861.95	854.49	839.39	818.23
175	825.94	870.02	871.75	877.12	869.25	853.91	830.44
176	841.61	885.60	887.72	892.46	884.17	868.59	842.76
177	857.48	901.37	903.90	907.98	899.26	883.44	855.19
178	873.57	917.32	920.27	923.68	914.53	898.46	867.73
179	889.86	933.46	936.85	939.56	929.96	913.64	880.38
180	906.36	949.80	953.63	955.63	945.57	929.00	893.14
181	923.08	966.33	970.61	971.88	961.35	944.53	906.02
182	940.01	983.05	987.81	988.31	977.30	960.23	919.01
183	957.15	999.97	1005.2	1004.9	993.43	976.10	932.12
184	974.51	1017.0	1022.8	1021.7	1009.7	992.15	945.33
185	992.09	1034.4	1040.6	1038.7	1026.2	1008.3	958.67
186	1009.8	1051.9	1058.6	1055.9	1042.8	1024.7	972.11
187	1027.9	1069.6	1076.9	1073.2	1059.7	1041.3	985.68
188	1046.1	1087.5	1095.3	1090.8	1076.7	1058.0	999.35
189	1064.6	1105.6	1114.0	1108.5	1093.9	1075.0	1013.1
190	1083.3	1123.9	1132.9	1126.5	1111.3	1092.1	1027.0
191	1102.2	1142.5	1152.0	1144.6	1128.9	1109.4	1041.0
192	1121.3	1161.2	1171.3	1163.0	1146.6	1126.8	1055.2
193	1140.7	1180.1	1190.9	1181.5	1164.5	1144.5	1069.4
194	1160.3	1199.3	1210.7	1200.2	1182.7	1162.3	1083.8
195	1180.2	1218.6	1230.7	1219.2	1201.0	1180.3	1098.3
196	1200.3	1238.2	1250.9	1238.3	1219.5	1198.6	1112.9
197	1220.6	1258.0	1271.3	1257.6	1238.1	1216.9	1127.7
198	1241.1	1278.0	1292.0	1277.1	1257.0	1235.5	1142.5

-continued-

Table 5. (p 2 of 2)

Width (mm)	FISHING SECTION						
	N. E.	E.	S. E.	S. W. WT. (GRAMS)	W.	N. M.	S. M.
199	1261.9	1298.2	1312.9	1296.9	1276.1	1254.3	1157.5
200	1283.0	1318.6	1334.1	1316.8	1295.3	1273.2	1172.6
201	1304.2	1339.3	1355.5	1336.9	1314.8	1292.4	1187.8
202	1325.8	1360.1	1377.1	1357.3	1334.4	1311.7	1203.1
203	1347.5	1381.2	1398.9	1377.8	1354.2	1331.2	1218.6
204	1369.6	1402.5	1421.0	1398.6	1374.3	1351.0	1234.1
205	1391.8	1424.0	1443.3	1419.6	1394.5	1370.9	1249.8
206	1414.4	1445.8	1465.9	1440.7	1414.9	1391.0	1265.6
207	1437.1	1467.7	1488.7	1462.1	1435.5	1411.3	1281.6
208	1460.2	1489.9	1511.7	1483.7	1456.4	1431.8	1297.6
209	1483.4	1512.3	1535.0	1505.5	1477.4	1452.5	1313.8
210	1507.0	1535.0	1558.5	1527.6	1498.6	1473.4	1330.1
211	1530.8	1557.9	1582.3	1549.8	1520.0	1494.5	1346.5
212	1554.8	1581.0	1606.3	1572.3	1541.6	1515.8	1363.1
213	1579.2	1604.3	1630.6	1595.0	1563.5	1537.3	1379.8
214	1603.8	1627.9	1655.1	1617.9	1585.5	1558.9	1396.6
215	1628.6	1651.7	1679.9	1641.0	1607.7	1580.8	1413.5
216	1653.7	1675.7	1704.9	1664.3	1630.2	1603.0	1430.6
217	1679.1	1700.0	1730.2	1687.9	1652.8	1625.3	1447.7
218	1704.8	1724.5	1755.7	1711.7	1675.7	1647.8	1465.0
219	1730.7	1749.3	1781.5	1735.7	1698.8	1670.5	1482.5
220	1756.9	1774.3	1807.6	1759.9	1722.0	1693.4	1500.0

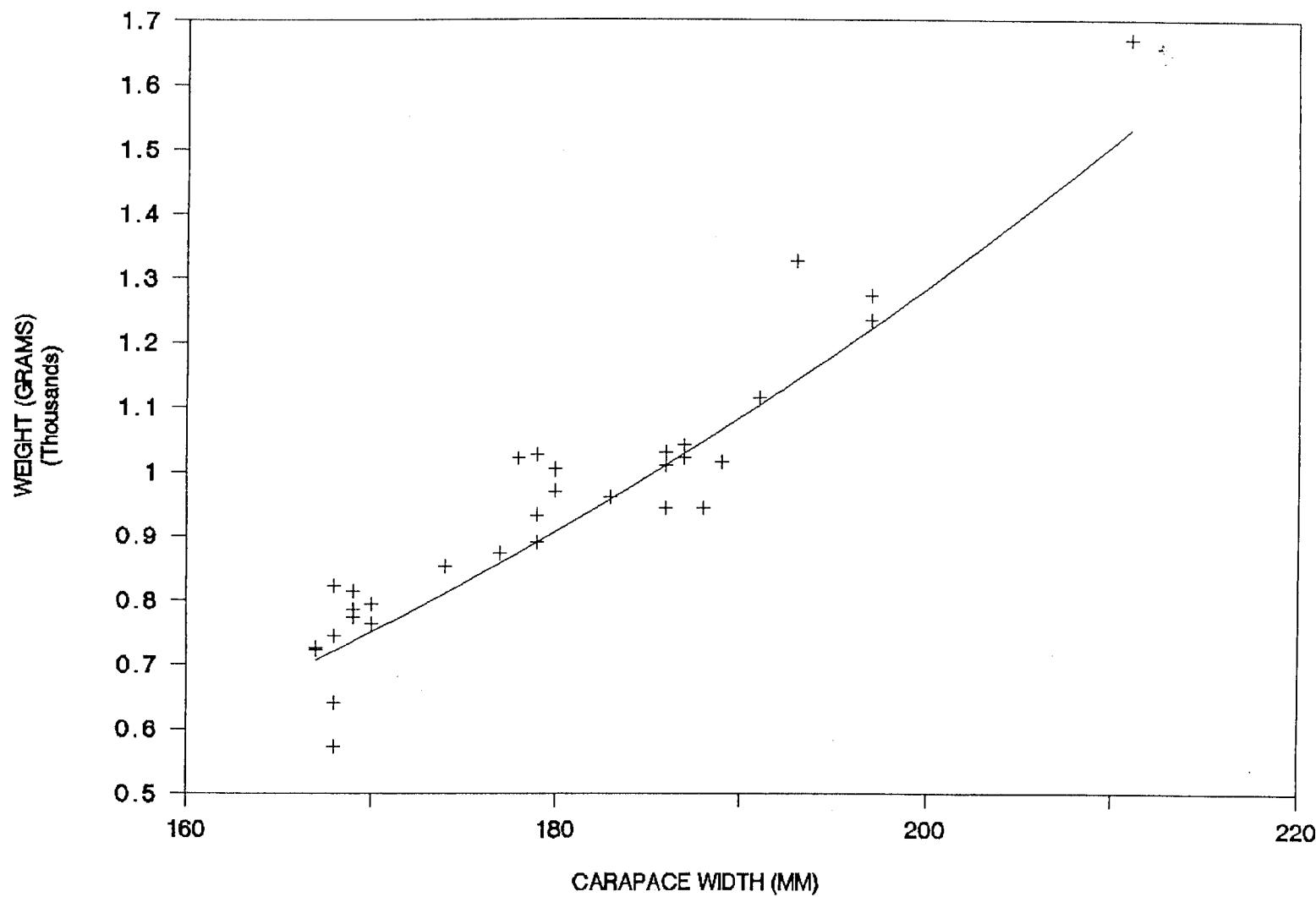


Figure 37. Width-Weight relationship of Dungeness crab sampled from the Northeast section during 1986.

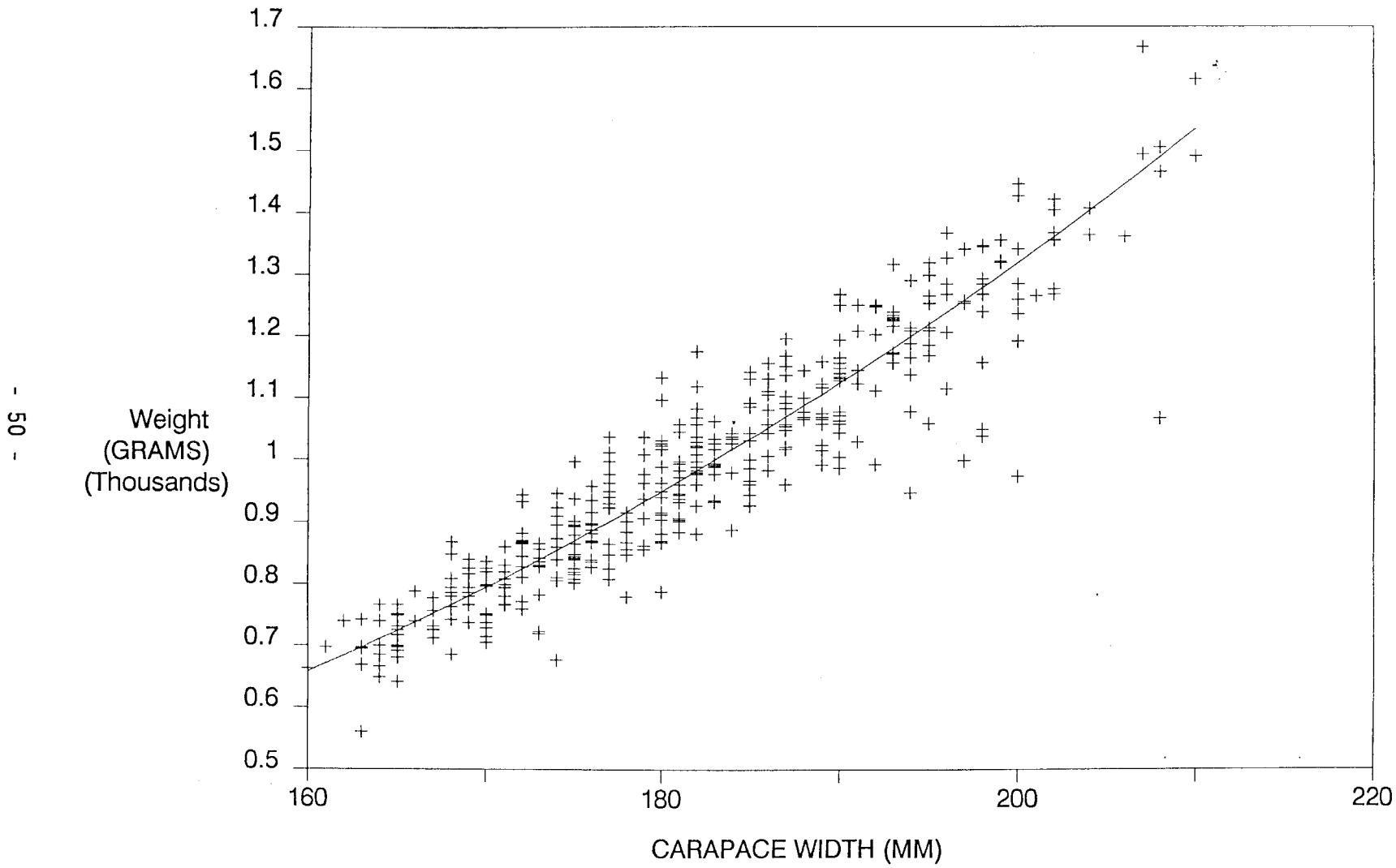


Figure 38.

Width-Weight relationship of Dungeness crab sampled from the Eastside section during 1986.

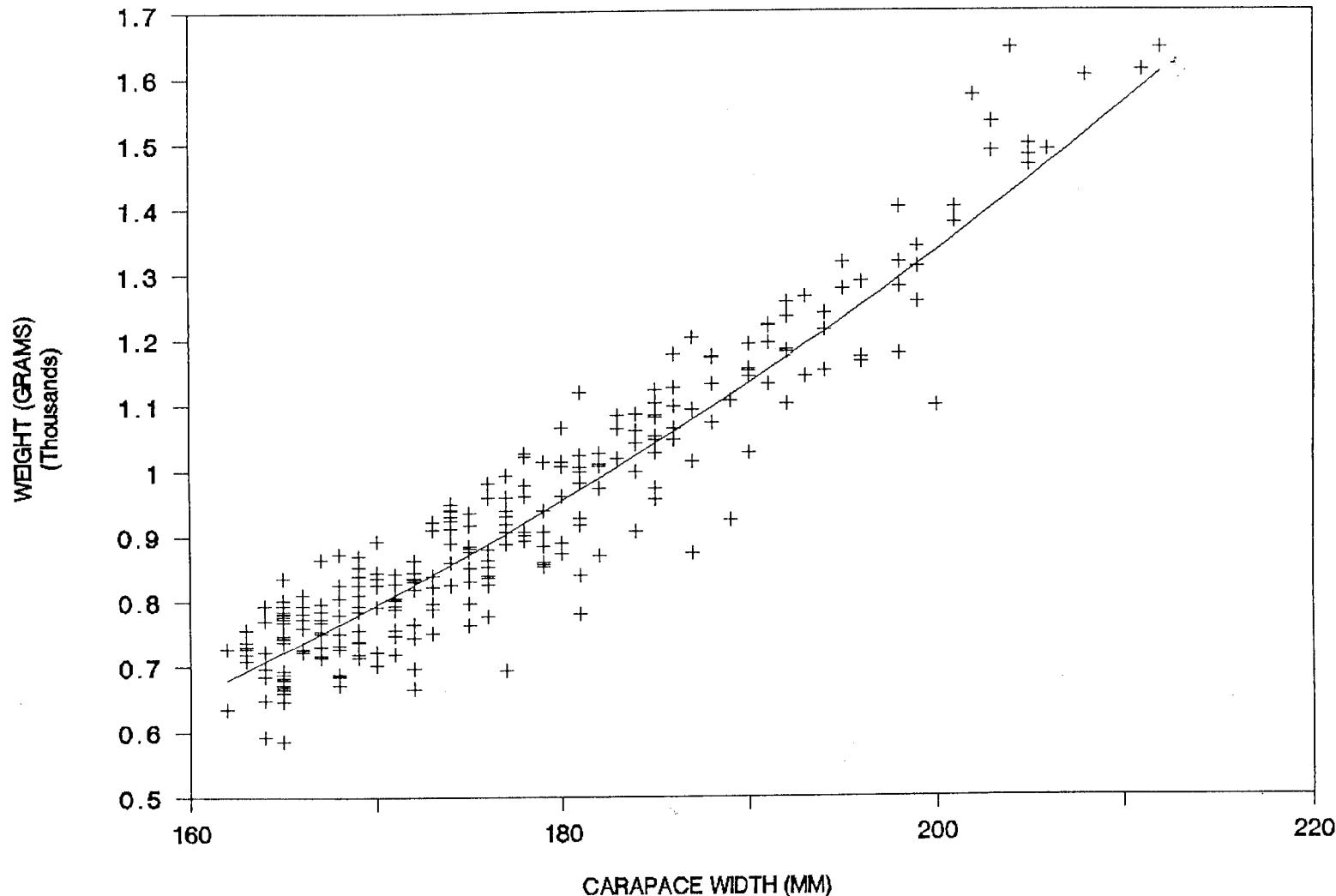


Figure 39. Width-Weight relationship of Dungeness crab sampled from the Southeast section during 1986.

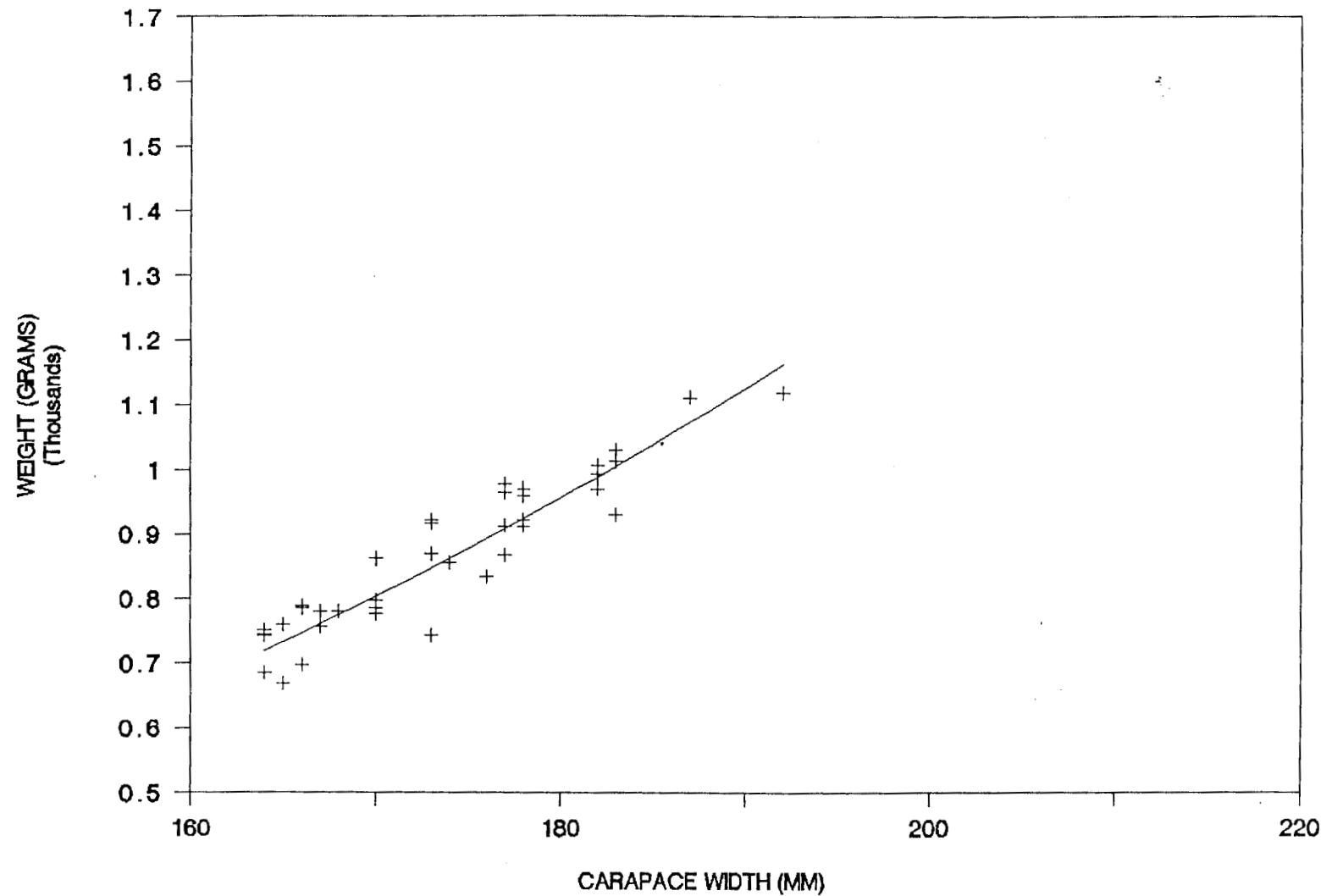


Figure 40. Width-Weight relationship of Dungeness crab sampled from the Southwest section during 1986.

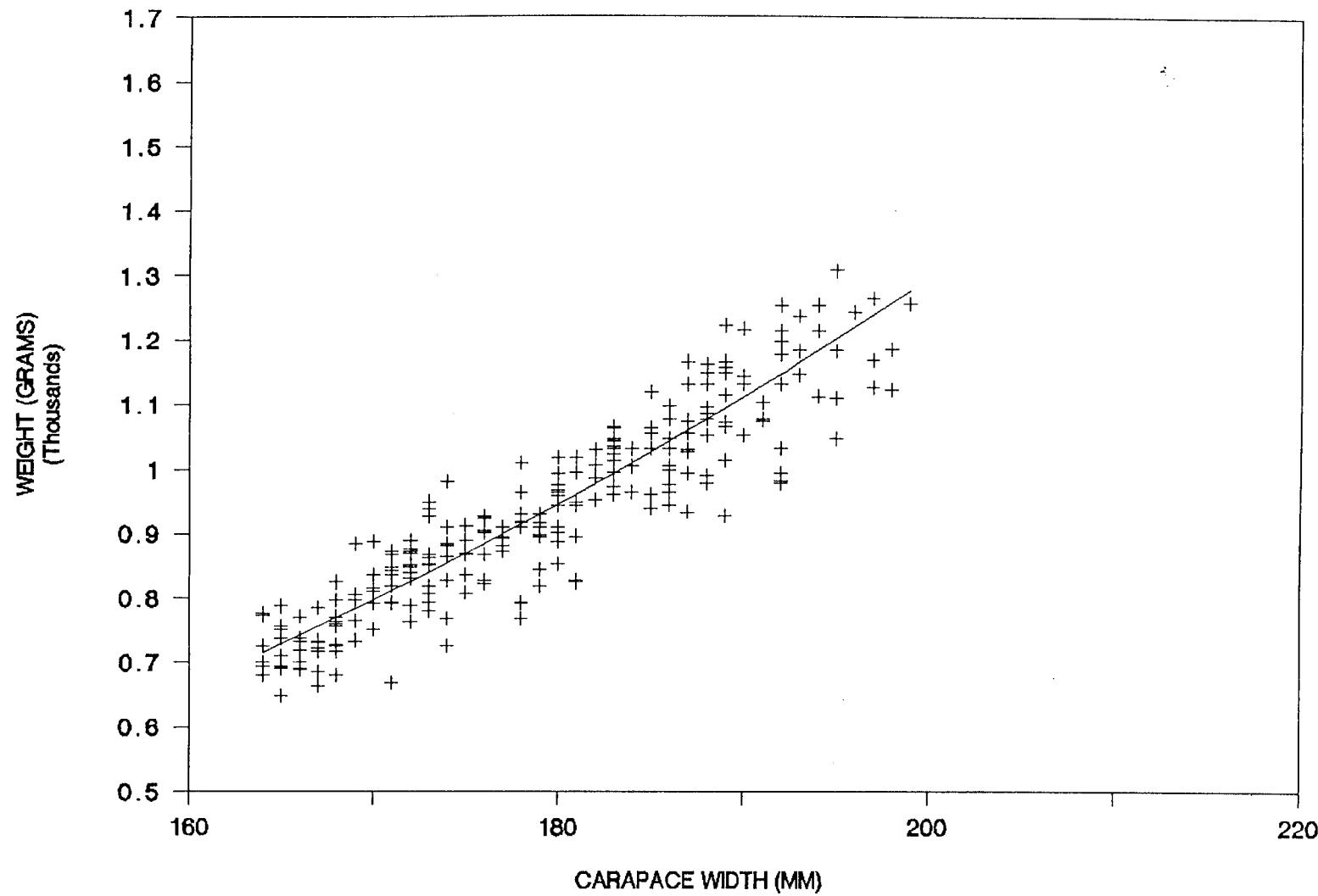


Figure 41. Width-Weight relationship of Dungeness crab sampled from the Westside section during 1986.

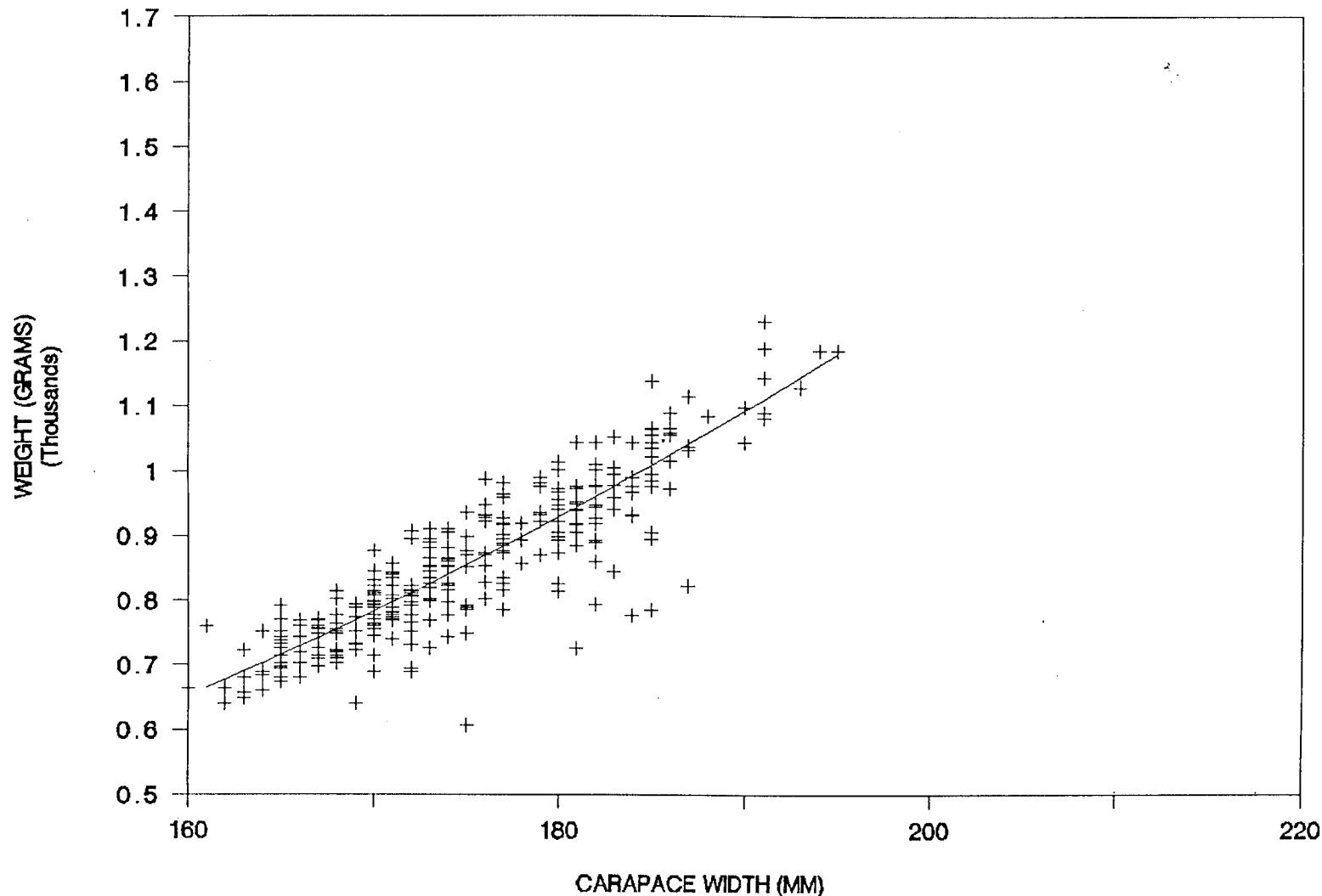


Figure 42. Width-Weight relationship of Dungeness crab sampled from the North Mainland section during 1986.

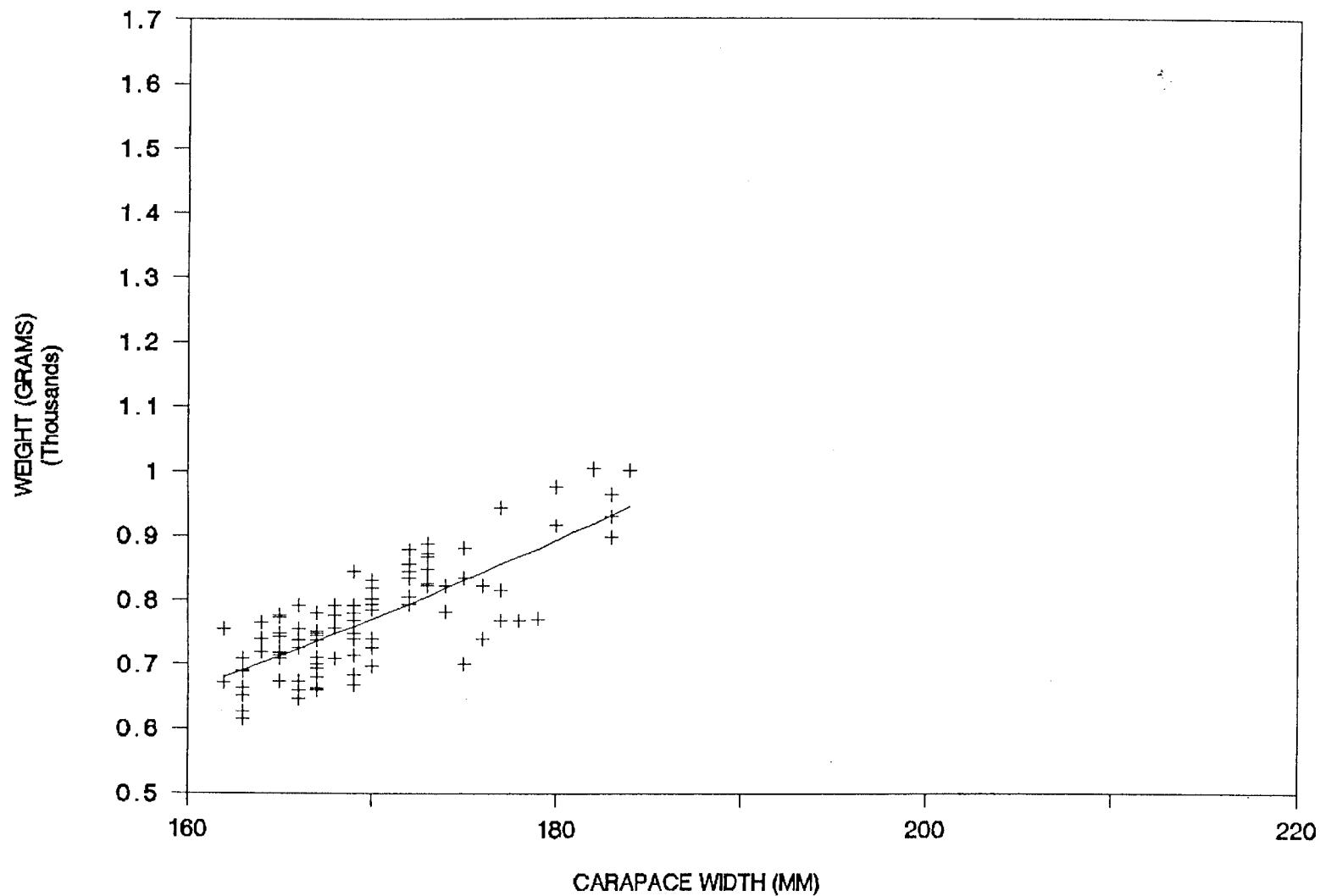


Figure 43. Width-Weight relationship of Dungeness crab sampled from the South Mainland section during 1986.

APPENDICES

OPERATIONAL PLAN

1986 Catch Sampling Program for the Kodiak Management Area Dungeness Crab Fishery

-INTRODUCTION-

Dungeness crab production in the Kodiak Area is now second only to Tanner crab in value for all shellfish fisheries. With the increasing importance of the fishery to our community, more active management and research is needed. One of the first and least costly methods of obtaining valuable data is catch sampling. This operational plan provides the necessary documentation and scientific standards not existing for a current catch sampling.

The data collected will provide an estimate of the size frequencies of the commercial harvest, an estimate of the size-weight relationships, and shell condition. From the data a determination of the rates of recruitment, the recruit/post-recruit ratios, the composition of removals from the population, and the mortality rates will be possible. In addition, the effects of our current management approach can be evaluated. Previous management discussions have mentioned using comparative Dungeness management within areas of the state or within areas of the region. The data from this catch sampling plan will provide the necessary information for modification of current management. One of the changes that may initially come from this program are the closures and openings of small geographic areas as a result of soft-shell monitoring. Current management does not include these types of closures within a general season and subsequent reopening.

Many of the procedures contained in this operational plan are new or different from the present catch sampling project. Some of the procedures may seem difficult to adhere to. The weighing of half of the animals per sample should only be necessary in the initial year of sampling. After the first year, sufficient width-weight tables for different shell conditions should exist. It will take time to weigh the crab and the operational plan provides a second individual to assist in this process. The sample sizes, monthly sampling events, total samples, and number of samples per section may initially seem unrealistic, but after extensive discussion seem feasible. It is the intent to meet the goals so that meaningful data will result.

APPENDIX A (p 2 of 5)

-OBJECTIVES-

- (1) To estimate size frequencies of the commercial harvest of Dungeness crab for each fishing section and fishing period within specified levels of precision and accuracy.
- (2) To estimate the size-weight relationship of the commercial harvest of Dungeness crab for each fishing section and fishing period within specified levels of precision and accuracy.
- (3) To estimate the recruit/post-recruit ratio from the percentage of recruit crab in the commercial harvest of Dungeness crab for each fishing section and fishing period within specified levels of precision and accuracy.
- (4) To estimate the percentage of soft-shell Dungeness crab that cannot be sold when landed for each fishing section and fishing period within specified levels of precision and accuracy.
- (5) To publish estimates of objectives 1-4 and their standard errors along with catch in the Technical Data Report series for future reference.

-PROCEDURES-

The Project Leader (PL) will be located in Kodiak and will coordinate and evaluate in conjunction with research staff all catch sampling. The PL will be in regular contact with the processors, the Area Management Biologist, the Assistant Area Management Biologist and the Dungeness crab Research Biologist to report progress. The PL will be assisted in catch sampling and data entry by a research FT I seasonal during peak sampling months of June through September.

The sampling will begin May 1 and extend through December 31. There will be 300 crabs sampled for each fishing period and for each of the seven fishing sections. A fishing period is one month. The seven fishing sections are Northeast, Eastside, Southeast, Southwest, South Mainland, North Mainland, and Westside. The sampling events and sample sizes are covered in Table 1 and Table 2. Ninety-five percent of the total Kodiak Area catch is landed at Kodiak processors. The PL will spread the sample of 300 over a minimum of six vessels. Based on prior data, a sample size of 300 provides estimates with 95% confidence limit of 5% for any single crab size. If vessel activity in a section is minimal, the PL may sample all 300 from one or two vessels. Sampling should be limited to pure loads caught in the month being sampled. If the vessel has mixed loads between two or more of the seven fishing sections, it should not be sampled. Each sample should be taken from a vessel that has been fishing on the grounds where the bulk of the commercial activity has occurred.

APPENDIX A (p 3 of 5)

Table 1. Catch sampling events for each sampling period.

Section	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Northeast		6	6	6	6	6		
Eastside		6	6	6	6	6		
Southeast		6	6	6	6	6		
Southwest			6	6	6	6		
S. Mainland		6	6	6	6			
N. Mainland		6	6	6	6			
Westside	6	6	6	6	6			

Table 2. Number of Dungeness crab sampled by month for catch sampling; 50 crab per sampling event.

Section	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Northeast	0	300	300	300	300	300	0	0	1500
Eastside	0	300	300	300	300	300	0	0	1500
Southeast	0	300	300	300	300	300	0	0	1500
Southwest	0	0	300	300	300	300	0	0	1200
S. Mainland	0	300	300	300	300	0	0	0	1200
N. Mainland	0	300	300	300	300	0	0	0	1200
Westside	300	300	300	300	300	0	0	0	1500
	300	1800	2100	2100	2100	1200	0	0	9600

Pertinent data to be taken while sampling should include information on where the catch came from, width measurements (inside 10th antero-lateral spine), and shell condition. A representative subsample that is 50% of the sample will have a weight measured (electronic balance) along with the other biological data. Shell condition will be determined using the following criteria:

- (1) New soft (unsalable): carapace very flexible when moderate pressure is applied
- (2) Shell of the year (hard): carapace inflexible when moderate pressure is applied, carapace relatively free of epifauna, dactyli relatively sharp or unworn

APPENDIX A (p 4 of 5)

(3) Obvious skip-molt: carapace inflexible when moderate pressure is applied, epifauna may be present, appendages and dactyli may be worn, definite scratches and abrasions present.

For the purposes of this program only the above mentioned shell classes need be defined and catch samplers trained. In order to accurately address the soft-shell condition for those periods not covered by catch sampling, additional sampling (Tables 3 and 4) of 100 crab per month/fishing section will occur. For those sampling events, only soft-shell condition data is recorded. The commercial catch information will be obtained from the skipper interview program.

Table 3. Additional sampling events for shell condition sampling.

Section	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Northeast	2	0	0	0	0	0	2	2
Eastside	2	0	0	0	0	0	2	2
Southeast	2	0	0	0	0	0	2	2
Southwest	2	2	0	0	0	0	2	2
S. Mainland	2	0	0	0	0	2	2	2
N. Mainland	2	0	0	0	0	2	2	2
Westside	0	0	0	0	0	2	2	2

Table 4. Number of Dungeness crab sampled by month for additional shell condition samples; 50 crab per sampling event.

Section	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Northeast	100	0	0	0	0	0	100	100	300
Eastside	100	0	0	0	0	0	100	100	300
Southeast	100	0	0	0	0	0	100	100	300
Southwest	100	100	0	0	0	0	100	100	400
S. Mainland	100	0	0	0	0	100	100	100	400
N. Mainland	100	0	0	0	0	100	100	100	400
Westside	0	0	0	0	0	100	100	100	300
	600	100	0	0	0	300	700	700	2400

APPENDIX A (p 5 of 5)

The skipper interview program that interviews a high percentage of the vessels will be used to locate vessels with pure loads. Close communication with the individual conducting interviews will be necessary. Based on that information, the PL will sample pure loads until sampling goals for the fishing period have been met. If assistance is needed because landings are not spread out over the fishing period, the PL will take the Dungeness Research Biologist as an assistant.

Data capture on a micro as the data is collected will be necessary to keep up with the number of samples potentially taken. The maximum of 9600 crabs sampled during catch sampling will be electronically recorded. In addition 2400 crab sampled for shell conditions will be electronically recorded.

-DESCRIPTION OF PRODUCT-

Prior to May 1, 1987, a Technical Data Report (TDR) will be written by the Dungeness crab catch sampling Project Leader. The TDR will have a title such as Kodiak Dungeness Crab Catch Sampling Investigations. The TDR will include major sections covering introduction, methods, results, and appendices of the results of the catch sampling data. The Dungeness Research Biologist will provide an annotated outline covering the expected subject matter of the reports. The topics included in these sections will comprise catch sampling and analysis of the catch sampling data, catch data, summaries of skipper interviews, skipper observations, and information on Dungeness obtained through the observer program.

Appendix B. Kodiak Area 1986 Dungeness catch sample by individual crab.

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
A (NE)	6-18-86	165	1	-0-
A	6-18-86	165	2	-0-
A	6-18-86	167	1	-0-
A	6-18-86	167	1	-0-
A	6-18-86	167	2	-0-
A	6-18-86	167	2	-0-
A	6-18-86	167	1	-0-
A	6-18-86	168	1	-0-
A	6-18-86	168	2	-0-
A	6-18-86	168	1	-0-
A	6-18-86	168	1	-0-
A	6-18-86	169	1	-0-
A	6-18-86	169	2	-0-
A	6-18-86	169	2	-0-
A	6-18-86	169	1	-0-
A	6-18-86	169	1	-0-
A	6-18-86	170	1	-0-
A	6-18-86	170	2	-0-
A	6-18-86	172	1	-0-
A	6-18-86	172	2	-0-
A	6-18-86	173	2	-0-
A	6-18-86	173	2	-0-
A	6-18-86	173	1	-0-
A	6-18-86	173	1	-0-
A	6-18-86	174	2	-0-
A	6-18-86	175	1	-0-
A	6-18-86	175	2	-0-
A	6-18-86	177	1	-0-
A	6-18-86	177	2	-0-
A	6-18-86	177	2	-0-
A	6-18-86	178	1	-0-
A	6-18-86	178	1	-0-
A	6-18-86	178	2	-0-
A	6-18-86	179	1	-0-
A	6-18-86	181	2	-0-
A	6-18-86	181	2	-0-
A	6-18-86	181	2	-0-
A	6-18-86	182	2	-0-
A	6-18-86	182	2	-0-
A	6-18-86	182	2	-0-
A	6-18-86	183	1	-0-
A	6-18-86	183	2	-0-
A	6-18-86	184	2	-0-

-Continued-

Appendix B. (p 2 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
A	6-18-86	184	2	-0-
A	6-18-86	185	2	-0-
A	6-18-86	187	2	-0-
A	6-18-86	187	2	-0-
A	6-18-86	187	2	-0-
A	6-18-86	187	2	-0-
A	6-18-86	188	2	-0-
A	6-18-86	188	2	-0-
A	6-18-86	188	2	-0-
A	6-18-86	189	2	-0-
A	6-18-86	190	2	-0-
A	6-18-86	192	2	-0-
A	6-18-86	192	2	-0-
A	6-18-86	193	2	-0-
A	6-18-86	193	2	-0-
A	6-18-86	194	2	-0-
A	6-18-86	195	2	-0-
A	6-18-86	195	2	-0-
A	6-18-86	195	1	-0-
A	6-18-86	196	2	-0-
A	6-18-86	196	2	-0-
A	6-18-86	196	2	-0-
A	6-18-86	197	2	-0-
A	6-18-86	197	2	-0-
A	6-18-86	198	2	-0-
A	6-18-86	198	2	-0-
A	6-18-86	199	2	-0-
A	6-18-86	200	2	-0-
A	6-18-86	203	2	-0-
A	6-18-86	205	2	-0-
A	6-18-86	205	2	-0-
A	6-18-86	207	2	-0-
A	6-18-86	214	1	-0-
A	8-17-86	166	2	819.9
A	8-17-86	169	1	814.2
A	8-17-86	169	1	785.8
A	8-17-86	178	1	1021.3
A	8-17-86	179	1	1027.0
A	8-17-86	179	1	890.8
A	8-17-86	180	1	970.3
A	8-17-86	185	4	868.1

-Continued-

Appendix B. (p 3 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
A	8-17-86	186	1	1010.0
A	8-17-86	195	2	1307.9
A	8-19-86	165	2	771.7
A	8-19-86	165	2	743.3
A	8-19-86	166	1	-0-
A	8-19-86	167	1	726.3
A	8-19-86	167	1	723.4
A	8-19-86	167	1	-0-
A	8-19-86	168	1	822.7
A	8-19-86	168	1	573.1
A	8-19-86	168	1	641.2
A	8-19-86	168	1	746.1
A	8-19-86	169	1	774.5
A	8-19-86	170	1	-0-
A	8-19-86	170	1	794.4
A	8-19-86	170	1	763.2
A	8-19-86	170	1	-0-
A	8-19-86	171	1	-0-
A	8-19-86	172	1	-0-
A	8-19-86	172	1	-0-
A	8-19-86	173	2	873.8
A	8-19-86	174	1	853.9
A	8-19-86	174	1	-0-
A	8-19-86	175	1	-0-
A	8-19-86	177	1	-0-
A	8-19-86	177	1	873.8
A	8-19-86	179	2	-0-
A	8-19-86	179	1	933.4
A	8-19-86	180	1	1004.3
A	8-19-86	181	1	-0-
A	8-19-86	183	1	961.7
A	8-19-86	186	1	944.7
A	8-19-86	186	1	-0-
A	8-19-86	186	1	1029.8
A	8-19-86	187	1	1041.2
A	8-19-86	187	2	-0-
A	8-19-86	187	1	1021.3
A	8-19-86	188	2	1044.0
A	8-19-86	188	1	944.7
A	8-19-86	189	1	1015.6
A	8-19-86	190	1	-0-
A	8-19-86	191	1	1114.9

-Continued-

Appendix B. (p 4 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
A	8-19-86	193	1	1327.7
A	8-19-86	194	1	-0-
A	8-19-86	197	1	1234.1
A	8-19-86	197	1	1273.8
A	8-19-86	211	1	1671.0
A	10-28-86	161	1	-0-
A	10-28-86	162	1	-0-
A	10-28-86	163	1	-0-
A	10-28-86	163	1	-0-
A	10-28-86	164	1	-0-
A	10-28-86	164	1	-0-
A	10-28-86	165	1	-0-
A	10-28-86	166	1	-0-
A	10-28-86	167	1	-0-
A	10-28-86	167	1	-0-
A	10-28-86	167	1	-0-
A	10-28-86	168	4	-0-
A	10-28-86	169	4	-0-
A	10-28-86	169	1	-0-
A	10-28-86	169	1	-0-
A	10-28-86	169	1	-0-
A	10-28-86	170	1	-0-
A	10-28-86	170	1	-0-
A	10-28-86	170	1	-0-
A	10-28-86	171	1	-0-
A	10-28-86	171	1	-0-
A	10-28-86	171	1	-0-
A	10-28-86	171	1	-0-
A	10-28-86	171	1	-0-
A	10-28-86	171	1	-0-
A	10-28-86	172	1	-0-
A	10-28-86	172	1	-0-
A	10-28-86	173	1	-0-
A	10-28-86	173	1	-0-
A	10-28-86	174	1	-0-
A	10-28-86	174	1	-0-
A	10-28-86	174	1	-0-
A	10-28-86	174	4	-0-
A	10-28-86	175	1	-0-
A	10-28-86	175	1	-0-
A	10-28-86	175	1	-0-
A	10-28-86	176	1	-0-

-Continued-

Appendix B. (p 5 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
A	10-28-86	176	1	-0-
A	10-28-86	176	1	-0-
A	10-28-86	176	1	-0-
A	10-28-86	176	1	-0-
A	10-28-86	176	1	-0-
A	10-28-86	179	4	-0-
A	10-28-86	181	1	-0-
A	10-28-86	182	1	-0-
A	10-28-86	184	1	-0-
A	10-28-86	184	1	-0-
A	10-28-86	185	4	-0-
A	10-28-86	189	1	-0-
B (E)	6-18-86	165	1	-0-
B	6-18-86	165	1	-0-
B	6-18-86	165	1	-0-
B	6-18-86	165	1	-0-
B	6-18-86	165	1	-0-
B	6-18-86	165	1	-0-
B	6-18-86	165	1	-0-
B	6-18-86	165	1	-0-
B	6-18-86	165	1	-0-
B	6-18-86	165	1	-0-
B	6-18-86	165	1	-0-
B	6-18-86	166	1	-0-
B	6-18-86	166	1	-0-
B	6-18-86	167	1	-0-
B	6-18-86	167	2	-0-
B	6-18-86	167	1	-0-
B	6-18-86	167	1	-0-
B	6-18-86	167	1	-0-
B	6-18-86	167	1	-0-
B	6-18-86	167	1	-0-
B	6-18-86	167	1	-0-
B	6-18-86	167	1	-0-
B	6-18-86	168	1	-0-
B	6-18-86	168	1	-0-
B	6-18-86	168	1	-0-
B	6-18-86	168	1	-0-
B	6-18-86	168	1	-0-
B	6-18-86	168	1	-0-
B	6-18-86	168	1	-0-
B	6-18-86	168	1	-0-
B	6-18-86	168	1	-0-
B	6-18-86	168	1	-0-

-Continued-

Appendix B. (p 6 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	6-18-86	169	1	-0-
B	6-18-86	169	1	-0-
B	6-18-86	169	1	-0-
B	6-18-86	169	1	-0-
B	6-18-86	170	1	-0-
B	6-18-86	170	1	-0-
B	6-18-86	170	1	-0-
B	6-18-86	170	1	-0-
B	6-18-86	170	1	-0-
B	6-18-86	170	1	-0-
B	6-18-86	171	1	-0-
B	6-18-86	171	1	-0-
B	6-18-86	171	1	-0-
B	6-18-86	171	1	-0-
B	6-18-86	171	1	-0-
B	6-18-86	171	1	-0-
B	6-18-86	171	1	-0-
B	6-18-86	171	1	-0-
B	6-18-86	171	1	-0-
B	6-18-86	172	1	-0-
B	6-18-86	172	1	-0-
B	6-18-86	172	1	-0-
B	6-18-86	172	1	-0-
B	6-18-86	172	1	-0-
B	6-18-86	172	1	-0-
B	6-18-86	172	1	-0-
B	6-18-86	172	1	-0-
B	6-18-86	172	1	-0-
B	6-18-86	173	1	-0-
B	6-18-86	173	1	-0-
B	6-18-86	173	1	-0-
B	6-18-86	173	1	-0-
B	6-18-86	173	1	-0-
B	6-18-86	174	1	-0-
B	6-18-86	174	1	-0-
B	6-18-86	174	1	-0-
B	6-18-86	174	1	-0-
B	6-18-86	174	1	-0-
B	6-18-86	174	1	-0-
B	6-18-86	174	1	-0-

-Continued-

Appendix B. (p 7 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	6-18-86	174	1	-0-
B	6-18-86	174	1	-0-
B	6-18-86	174	1	-0-
B	6-18-86	175	1	-0-
B	6-18-86	175	1	-0-
B	6-18-86	175	1	-0-
B	6-18-86	175	1	-0-
B	6-18-86	175	1	-0-
B	6-18-86	176	2	-0-
B	6-18-86	176	1	-0-
B	6-18-86	176	1	-0-
B	6-18-86	176	2	-0-
B	6-18-86	176	1	-0-
B	6-18-86	176	1	-0-
B	6-18-86	177	1	-0-
B	6-18-86	177	1	-0-
B	6-18-86	177	1	-0-
B	6-18-86	177	1	-0-
B	6-18-86	177	1	-0-
B	6-18-86	177	1	-0-
B	6-18-86	177	1	-0-
B	6-18-86	177	1	-0-
B	6-18-86	177	1	-0-
B	6-18-86	177	1	-0-
B	6-18-86	177	1	-0-
B	6-18-86	177	1	-0-
B	6-18-86	178	1	-0-
B	6-18-86	178	1	-0-
B	6-18-86	178	1	-0-
B	6-18-86	178	1	-0-
B	6-18-86	178	1	-0-
B	6-18-86	178	1	-0-
B	6-18-86	178	1	-0-
B	6-18-86	178	1	-0-
B	6-18-86	179	2	-0-
B	6-18-86	179	1	-0-
B	6-18-86	179	2	-0-
B	6-18-86	179	1	-0-
B	6-18-86	179	1	-0-
B	6-18-86	179	1	-0-
B	6-18-86	179	1	-0-
B	6-18-86	179	1	-0-
B	6-18-86	179	1	-0-
B	6-18-86	179	1	-0-
B	6-18-86	179	1	-0-

-Continued-

Appendix B. (p 8 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	6-18-86	180	1	-0-
B	6-18-86	180	1	-0-
B	6-18-86	180	1	-0-
B	6-18-86	180	1	-0-
B	6-18-86	180	1	-0-
B	6-18-86	180	1	-0-
B	6-18-86	180	1	-0-
B	6-18-86	181	1	-0-
B	6-18-86	181	1	-0-
B	6-18-86	181	1	-0-
B	6-18-86	181	1	-0-
B	6-18-86	181	1	-0-
B	6-18-86	182	1	-0-
B	6-18-86	182	1	-0-
B	6-18-86	182	1	-0-
B	6-18-86	182	1	-0-
B	6-18-86	182	1	-0-
B	6-18-86	182	1	-0-
B	6-18-86	182	2	-0-
B	6-18-86	183	1	-0-
B	6-18-86	183	1	-0-
B	6-18-86	183	1	-0-
B	6-18-86	184	1	-0-
B	6-18-86	184	1	-0-
B	6-18-86	184	1	-0-
B	6-18-86	184	1	-0-
B	6-18-86	184	1	-0-
B	6-18-86	184	1	-0-
B	6-18-86	184	1	-0-
B	6-18-86	184	1	-0-
B	6-18-86	184	1	-0-
B	6-18-86	184	1	-0-
B	6-18-86	184	1	-0-
B	6-18-86	184	1	-0-
B	6-18-86	185	1	-0-
B	6-18-86	185	1	-0-
B	6-18-86	185	1	-0-
B	6-18-86	185	1	-0-
B	6-18-86	185	1	-0-
B	6-18-86	185	1	-0-
B	6-18-86	185	1	-0-

-Continued-

Appendix B. (p 9 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	6-18-86	185	1	-0-
B	6-18-86	185	1	-0-
B	6-18-86	185	1	-0-
B	6-18-86	185	1	-0-
B	6-18-86	185	1	-0-
B	6-18-86	185	1	-0-
B	6-18-86	186	1	-0-
B	6-18-86	186	1	-0-
B	6-18-86	186	1	-0-
B	6-18-86	187	1	-0-
B	6-18-86	187	1	-0-
B	6-18-86	187	1	-0-
B	6-18-86	187	1	-0-
B	6-18-86	187	1	-0-
B	6-18-86	187	1	-0-
B	6-18-86	187	1	-0-
B	6-18-86	187	1	-0-
B	6-18-86	187	1	-0-
B	6-18-86	187	1	-0-
B	6-18-86	187	1	-0-
B	6-18-86	187	1	-0-
B	6-18-86	187	1	-0-
B	6-18-86	187	1	-0-
B	6-18-86	188	1	-0-
B	6-18-86	188	1	-0-
B	6-18-86	188	1	-0-
B	6-18-86	188	1	-0-
B	6-18-86	188	1	-0-
B	6-18-86	188	1	-0-
B	6-18-86	188	1	-0-
B	6-18-86	188	1	-0-
B	6-18-86	189	1	-0-
B	6-18-86	190	1	-0-
B	6-18-86	190	1	-0-
B	6-18-86	190	1	-0-
B	6-18-86	190	1	-0-

-Continued-

Appendix B. (p 10 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	6-18-86	190	1	-0-
B	6-18-86	190	1	-0-
B	6-18-86	191	1	-0-
B	6-18-86	191	1	-0-
B	6-18-86	191	1	-0-
B	6-18-86	191	1	-0-
B	6-18-86	191	1	-0-
B	6-18-86	192	1	-0-
B	6-18-86	192	1	-0-
B	6-18-86	192	1	-0-
B	6-18-86	192	1	-0-
B	6-18-86	192	1	-0-
B	6-18-86	192	1	-0-
B	6-18-86	193	1	-0-
B	6-18-86	193	1	-0-
B	6-18-86	193	1	-0-
B	6-18-86	193	1	-0-
B	6-18-86	193	1	-0-
B	6-18-86	193	1	-0-
B	6-18-86	194	1	-0-
B	6-18-86	194	1	-0-
B	6-18-86	194	1	-0-
B	6-18-86	194	1	-0-
B	6-18-86	195	1	-0-
B	6-18-86	195	1	-0-
B	6-18-86	195	1	-0-
B	6-18-86	195	1	-0-
B	6-18-86	195	1	-0-
B	6-18-86	195	1	-0-
B	6-18-86	195	1	-0-
B	6-18-86	196	1	-0-
B	6-18-86	196	1	-0-
B	6-18-86	197	1	-0-
B	6-18-86	197	1	-0-
B	6-18-86	198	1	-0-
B	6-18-86	198	1	-0-
B	6-18-86	198	1	-0-
B	6-18-86	198	1	-0-
B	6-18-86	199	1	-0-
B	6-18-86	200	1	-0-
B	6-18-86	201	1	-0-
B	6-18-86	202	1	-0-

-Continued-

Appendix B. (p 11 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	6-18-86	205	1	-0-
B	6-18-86	205	1	-0-
B	6-18-86	208	1	-0-
B	6-18-86	213	1	-0-
B	6-19-86	163	1	-0-
B	6-19-86	163	1	-0-
B	6-19-86	165	1	-0-
B	6-19-86	165	1	-0-
B	6-19-86	165	1	-0-
B	6-19-86	165	1	-0-
B	6-19-86	165	1	-0-
B	6-19-86	165	1	-0-
B	6-19-86	165	1	-0-
B	6-19-86	165	1	-0-
B	6-19-86	165	1	-0-
B	6-19-86	165	1	-0-
B	6-19-86	165	1	-0-
B	6-19-86	165	1	-0-
B	6-19-86	165	1	-0-
B	6-19-86	165	1	-0-
B	6-19-86	165	1	-0-
B	6-19-86	165	1	-0-
B	6-19-86	166	1	-0-
B	6-19-86	166	1	-0-
B	6-19-86	166	1	-0-
B	6-19-86	166	1	-0-
B	6-19-86	166	1	-0-
B	6-19-86	166	1	-0-
B	6-19-86	166	2	-0-
B	6-19-86	166	1	-0-
B	6-19-86	166	1	-0-
B	6-19-86	166	1	-0-
B	6-19-86	166	1	-0-
B	6-19-86	166	1	-0-
B	6-19-86	166	1	-0-
B	6-19-86	166	1	-0-
B	6-19-86	167	1	-0-
B	6-19-86	167	1	-0-
B	6-19-86	167	2	-0-
B	6-19-86	167	1	-0-
B	6-19-86	167	1	-0-

-Continued-

Appendix B. (p 12 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	6-19-86	167	1	-0-
B	6-19-86	167	1	-0-
B	6-19-86	167	1	-0-
B	6-19-86	167	1	-0-
B	6-19-86	167	1	-0-
B	6-19-86	167	1	-0-
B	6-19-86	167	1	-0-
B	6-19-86	167	1	-0-
B	6-19-86	167	1	-0-
B	6-19-86	167	1	-0-
B	6-19-86	168	2	-0-
B	6-19-86	168	1	-0-
B	6-19-86	168	1	-0-
B	6-19-86	168	1	-0-
B	6-19-86	168	1	-0-
B	6-19-86	168	1	-0-
B	6-19-86	168	1	-0-
B	6-19-86	168	1	-0-
B	6-19-86	168	1	-0-
B	6-19-86	168	1	-0-
B	6-19-86	168	1	-0-
B	6-19-86	168	1	-0-
B	6-19-86	168	1	-0-
B	6-19-86	168	1	-0-
B	6-19-86	168	1	-0-
B	6-19-86	168	1	-0-
B	6-19-86	168	1	-0-
B	6-19-86	168	1	-0-
B	6-19-86	168	1	-0-
B	6-19-86	168	1	-0-
B	6-19-86	168	1	-0-
B	6-19-86	169	1	-0-
B	6-19-86	169	1	-0-
B	6-19-86	169	1	-0-
B	6-19-86	169	1	-0-
B	6-19-86	169	1	-0-
B	6-19-86	169	1	-0-
B	6-19-86	169	1	-0-
B	6-19-86	169	1	-0-
B	6-19-86	169	1	-0-
B	6-19-86	169	1	-0-
B	6-19-86	169	1	-0-
B	6-19-86	169	1	-0-
B	6-19-86	169	1	-0-

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Appendix B. (p 13 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	6-19-86	169	1	-0-
B	6-19-86	169	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	170	1	-0-
B	6-19-86	171	1	-0-
B	6-19-86	171	1	-0-
B	6-19-86	171	1	-0-
B	6-19-86	171	1	-0-
B	6-19-86	171	1	-0-
B	6-19-86	171	1	-0-
B	6-19-86	171	1	-0-
B	6-19-86	171	1	-0-
B	6-19-86	171	1	-0-
B	6-19-86	171	1	-0-
B	6-19-86	171	1	-0-
B	6-19-86	171	1	-0-
B	6-19-86	171	1	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	2	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	1	-0-

-Continued-

Appendix B. (p 14 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	6-19-86	172	2	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	1	-0-
B	6-19-86	172	2	-0-
B	6-19-86	173	1	-0-
B	6-19-86	173	1	-0-
B	6-19-86	173	1	-0-
B	6-19-86	173	1	-0-
B	6-19-86	173	1	-0-
B	6-19-86	173	1	-0-
B	6-19-86	173	1	-0-
B	6-19-86	173	1	-0-
B	6-19-86	173	1	-0-
B	6-19-86	173	1	-0-
B	6-19-86	173	1	-0-
B	6-19-86	173	2	-0-
B	6-19-86	173	2	-0-
B	6-19-86	173	1	-0-
B	6-19-86	173	1	-0-
B	6-19-86	173	1	-0-
B	6-19-86	173	1	-0-
B	6-19-86	173	1	-0-
B	6-19-86	173	1	-0-
B	6-19-86	173	1	-0-
B	6-19-86	174	2	-0-
B	6-19-86	174	1	-0-
B	6-19-86	174	1	-0-
B	6-19-86	174	1	-0-
B	6-19-86	174	2	-0-
B	6-19-86	174	1	-0-
B	6-19-86	174	1	-0-
B	6-19-86	174	1	-0-
B	6-19-86	174	1	-0-
B	6-19-86	174	1	-0-
B	6-19-86	174	1	-0-
B	6-19-86	174	1	-0-
B	6-19-86	174	1	-0-
B	6-19-86	174	1	-0-

-Continued-

Appendix B. (p 15 of 82)

-Continued-

Appendix B. (p 16 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	6-19-86	175	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	176	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-

-Continued-

Appendix B. (p 17 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	177	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	2	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	2	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	2	-0-
B	6-19-86	178	2	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	178	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-

-Continued-

Appendix B. (p 18 of 82)

<u>SECTION</u>	<u>DATE</u>	<u>WIDTH</u>	<u>SHELLAGE</u>	<u>WEIGHT^a</u>
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	179	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	2	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	2	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	2	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-
B	6-19-86	180	1	-0-

-Continued-

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-Continued-

Appendix B. (p 20 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	2	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	183	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	2	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-

-Continued-

Appendix B. (p 21 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	184	1	-0-
B	6-19-86	185	1	-0-
B	6-19-86	185	1	-0-
B	6-19-86	185	1	-0-
B	6-19-86	185	1	-0-
B	6-19-86	185	1	-0-
B	6-19-86	185	1	-0-
B	6-19-86	185	1	-0-
B	6-19-86	185	1	-0-
B	6-19-86	185	1	-0-
B	6-19-86	185	1	-0-
B	6-19-86	185	1	-0-
B	6-19-86	185	1	-0-
B	6-19-86	185	1	-0-
B	6-19-86	186	1	-0-
B	6-19-86	186	1	-0-
B	6-19-86	186	1	-0-
B	6-19-86	186	1	-0-
B	6-19-86	186	2	-0-
B	6-19-86	186	1	-0-
B	6-19-86	186	2	-0-
B	6-19-86	186	1	-0-
B	6-19-86	186	1	-0-
B	6-19-86	186	2	-0-
B	6-19-86	186	2	-0-
B	6-19-86	186	1	-0-
B	6-19-86	186	1	-0-
B	6-19-86	187	1	-0-
B	6-19-86	187	1	-0-
B	6-19-86	187	1	-0-
B	6-19-86	187	1	-0-
B	6-19-86	187	1	-0-
B	6-19-86	187	1	-0-

-Continued-

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-Continued-

Appendix B. (p 23 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	6-19-86	188	1	-0-
B	6-19-86	188	2	-0-
B	6-19-86	188	1	-0-
B	6-19-86	189	2	-0-
B	6-19-86	189	1	-0-
B	6-19-86	189	1	-0-
B	6-19-86	189	1	-0-
B	6-19-86	189	1	-0-
B	6-19-86	189	1	-0-
B	6-19-86	189	1	-0-
B	6-19-86	189	1	-0-
B	6-19-86	189	1	-0-
B	6-19-86	189	1	-0-
B	6-19-86	189	2	-0-
B	6-19-86	189	1	-0-
B	6-19-86	189	1	-0-
B	6-19-86	189	1	-0-
B	6-19-86	189	1	-0-
B	6-19-86	189	1	-0-
B	6-19-86	189	1	-0-
B	6-19-86	190	1	-0-
B	6-19-86	190	1	-0-
B	6-19-86	190	1	-0-
B	6-19-86	190	1	-0-
B	6-19-86	190	1	-0-
B	6-19-86	190	1	-0-
B	6-19-86	190	1	-0-
B	6-19-86	191	1	-0-
B	6-19-86	191	1	-0-
B	6-19-86	191	1	-0-
B	6-19-86	191	1	-0-
B	6-19-86	191	1	-0-
B	6-19-86	191	1	-0-
B	6-19-86	191	1	-0-
B	6-19-86	191	1	-0-
B	6-19-86	191	1	-0-
B	6-19-86	192	1	-0-
B	6-19-86	192	1	-0-
B	6-19-86	192	1	-0-
B	6-19-86	192	1	-0-
B	6-19-86	192	1	-0-
B	6-19-86	192	1	-0-
B	6-19-86	192	1	-0-
B	6-19-86	192	1	-0-
B	6-19-86	193	1	-0-
B	6-19-86	193	1	-0-
B	6-19-86	193	1	-0-
B	6-19-86	193	1	-0-

-Continued-

Appendix B. (p 24 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	6-19-86	193	1	-0-
B	6-19-86	193	1	-0-
B	6-19-86	193	1	-0-
B	6-19-86	193	1	-0-
B	6-19-86	193	1	-0-
B	6-19-86	193	1	-0-
B	6-19-86	194	1	-0-
B	6-19-86	194	1	-0-
B	6-19-86	194	1	-0-
B	6-19-86	194	1	-0-
B	6-19-86	194	1	-0-
B	6-19-86	194	2	-0-
B	6-19-86	194	1	-0-
B	6-19-86	195	1	-0-
B	6-19-86	195	1	-0-
B	6-19-86	195	1	-0-
B	6-19-86	195	1	-0-
B	6-19-86	195	1	-0-
B	6-19-86	195	1	-0-
B	6-19-86	196	1	-0-
B	6-19-86	196	1	-0-
B	6-19-86	196	1	-0-
B	6-19-86	196	1	-0-
B	6-19-86	197	1	-0-
B	6-19-86	197	1	-0-
B	6-19-86	197	1	-0-
B	6-19-86	197	1	-0-
B	6-19-86	198	1	-0-
B	6-19-86	198	1	-0-
B	6-19-86	198	1	-0-
B	6-19-86	199	1	-0-
B	6-19-86	200	1	-0-
B	6-19-86	200	1	-0-
B	6-19-86	201	1	-0-
B	6-19-86	202	1	-0-
B	6-19-86	202	1	-0-
B	6-19-86	208	1	-0-
B	6-19-86	213	1	-0-
B	6-19-86	216	2	-0-
B	7-26-86	160	1	663.9
B	7-26-86	161	1	697.9
B	7-26-86	162	1	740.5
B	7-26-86	163	1	695.1
B	7-26-86	163	1	697.9
B	7-26-86	164	1	686.6

-Continued-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	7-26-86	164	1	666.7
B	7-26-86	164	1	766.0
B	7-26-86	165	1	766.0
B	7-26-86	165	1	692.2
B	7-26-86	165	1	749.0
B	7-26-86	165	1	726.3
B	7-26-86	166	2	689.4
B	7-26-86	166	1	788.7
B	7-26-86	166	1	740.5
B	7-26-86	167	1	726.3
B	7-26-86	167	1	712.1
B	7-26-86	168	1	794.4
B	7-26-86	168	2	842.6
B	7-26-86	168	1	808.5
B	7-26-86	168	2	743.3
B	7-26-86	168	1	848.3
B	7-26-86	169	2	794.4
B	7-26-86	169	1	785.8
B	7-26-86	169	2	822.7
B	7-26-86	169	1	794.4
B	7-26-86	170	2	811.4
B	7-26-86	170	1	737.6
B	7-26-86	170	2	717.8
B	7-26-86	171	1	800.0
B	7-26-86	171	2	791.5
B	7-26-86	171	1	780.2
B	7-26-86	171	1	794.4
B	7-26-86	171	1	819.9
B	7-26-86	172	1	865.3
B	7-26-86	172	1	868.1
B	7-26-86	172	1	771.7
B	7-26-86	172	1	871.0
B	7-26-86	173	1	831.2
B	7-26-86	173	1	865.3
B	7-26-86	173	1	828.4
B	7-26-86	173	1	836.9
B	7-26-86	174	2	834.1
B	7-26-86	174	1	839.8
B	7-26-86	174	2	888.0
B	7-26-86	174	1	947.6
B	7-26-86	174	1	678.0
B	7-26-86	174	1	859.6

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	7-26-86	174	2	797.2
B	7-26-86	175	2	862.4
B	7-26-86	175	1	819.9
B	7-26-86	176	1	958.9
B	7-26-86	176	1	871.0
B	7-26-86	176	1	868.1
B	7-26-86	176	1	888.0
B	7-26-86	177	1	950.4
B	7-26-86	177	1	825.6
B	7-26-86	177	2	933.4
B	7-26-86	177	2	879.5
B	7-26-86	177	1	865.3
B	7-26-86	178	2	922.0
B	7-26-86	179	2	1021.3
B	7-26-86	179	1	907.8
B	7-26-86	179	2	975.9
B	7-26-86	179	1	978.8
B	7-26-86	180	2	873.8
B	7-26-86	180	2	868.1
B	7-26-86	180	1	913.5
B	7-26-86	180	1	1032.7
B	7-26-86	180	1	871.0
B	7-26-86	180	2	1004.3
B	7-26-86	181	1	944.7
B	7-26-86	181	2	958.9
B	7-26-86	182	1	1010.0
B	7-26-86	182	1	1083.7
B	7-26-86	182	1	990.1
B	7-26-86	183	2	939.0
B	7-26-86	183	2	848.3
B	7-26-86	184	1	1044.0
B	7-26-86	185	1	1032.7
B	7-26-86	185	1	1001.5
B	7-26-86	186	1	1007.1
B	7-26-86	186	1	984.4
B	7-26-86	187	1	1018.5
B	7-26-86	188	1	1100.8
B	7-26-86	188	1	1146.1
B	7-26-86	189	2	1109.3
B	7-26-86	190	1	1194.4
B	7-26-86	190	1	836.9
B	7-26-86	190	1	987.3

-Continued-

Appendix B. (p 27 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	7-26-86	190	2	1219.9
B	7-26-86	191	1	1146.1
B	7-26-86	192	1	1112.1
B	7-26-86	193	1	1174.5
B	7-26-86	194	1	1208.6
B	7-26-86	194	1	1166.0
B	7-26-86	196	1	1327.7
B	7-26-86	197	1	1341.9
B	7-26-86	199	2	1356.1
B	7-26-86	200	2	1268.1
B	7-28-86	164	1	-0-
B	7-28-86	165	4	-0-
B	7-28-86	166	1	-0-
B	7-28-86	166	1	-0-
B	7-28-86	166	1	-0-
B	7-28-86	167	1	-0-
B	7-28-86	167	1	-0-
B	7-28-86	169	1	-0-
B	7-28-86	170	1	-0-
B	7-28-86	171	1	-0-
B	7-28-86	172	1	-0-
B	7-28-86	173	1	-0-
B	7-28-86	173	1	-0-
B	7-28-86	174	1	-0-
B	7-28-86	174	1	-0-
B	7-28-86	175	1	-0-
B	7-28-86	178	1	-0-
B	7-28-86	178	1	-0-
B	7-28-86	179	1	-0-
B	7-28-86	181	1	-0-
B	7-28-86	181	2	-0-
B	7-28-86	182	1	-0-
B	7-28-86	182	1	-0-
B	7-28-86	183	1	-0-
B	7-28-86	184	4	-0-
B	7-28-86	188	1	-0-
B	7-28-86	189	2	-0-
B	7-28-86	189	1	-0-
B	7-28-86	191	2	-0-
B	7-28-86	192	1	-0-
B	7-28-86	193	2	-0-
B	7-28-86	193	1	-0-

-Continued-

Appendix B. (p 28 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	7-28-86	194	1	-0-
B	7-28-86	196	1	-0-
B	8- 9-86	163	2	822.7
B	8- 9-86	168	1	780.2
B	8- 9-86	168	1	868.1
B	8- 9-86	170	1	714.9
B	8- 9-86	170	1	751.8
B	8- 9-86	170	1	825.6
B	8- 9-86	170	1	706.4
B	8- 9-86	172	1	845.4
B	8- 9-86	172	2	686.6
B	8- 9-86	172	1	944.7
B	8- 9-86	173	1	783.0
B	8- 9-86	174	1	896.5
B	8- 9-86	174	1	805.7
B	8- 9-86	175	1	808.5
B	8- 9-86	175	1	802.9
B	8- 9-86	176	2	876.6
B	8- 9-86	176	1	839.8
B	8- 9-86	176	2	941.9
B	8- 9-86	177	1	1012.8
B	8- 9-86	177	1	998.6
B	8- 9-86	177	1	848.3
B	8- 9-86	179	1	856.8
B	8- 9-86	179	1	862.4
B	8- 9-86	180	1	1024.2
B	8- 9-86	180	1	788.7
B	8- 9-86	181	2	981.6
B	8- 9-86	181	1	998.6
B	8- 9-86	182	1	1029.8
B	8- 9-86	182	1	984.4
B	8- 9-86	182	2	967.4
B	8- 9-86	183	1	1063.9
B	8- 9-86	184	1	-0-
B	8- 9-86	184	2	1075.2
B	8- 9-86	186	1	1058.2
B	8- 9-86	187	2	1078.1
B	8- 9-86	187	1	1137.6
B	8- 9-86	189	2	1191.5
B	8- 9-86	189	1	1058.2
B	8- 9-86	189	2	1242.6
B	8- 9-86	189	1	1160.3

-Continued-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	8- 9-86	189	1	1123.5
B	8- 9-86	190	2	1168.8
B	8- 9-86	191	1	1146.1
B	8- 9-86	192	1	993.0
B	8- 9-86	196	1	1268.1
B	8- 9-86	198	2	1276.7
B	8- 9-86	200	2	1302.2
B	8- 9-86	201	2	1361.8
B	8- 9-86	202	1	1356.1
B	8- 9-86	202	2	1472.4
B	8- 9-86	202	2	1429.8
B	8- 9-86	206	2	1421.3
B	8- 9-86	208	1	1506.4
B	8- 9-86	211	2	1367.4
B	8- 9-86	220	2	1617.1
B	8-12-86	163	1	561.7
B	8-12-86	163	1	-0-
B	8-12-86	163	1	743.3
B	8-12-86	164	1	-0-
B	8-12-86	164	1	-0-
B	8-12-86	165	1	680.9
B	8-12-86	165	1	-0-
B	8-12-86	165	1	697.9
B	8-12-86	166	2	680.9
B	8-12-86	167	2	621.3
B	8-12-86	168	2	-0-
B	8-12-86	168	1	686.6
B	8-12-86	168	1	-0-
B	8-12-86	169	1	839.8
B	8-12-86	169	1	817.1
B	8-12-86	169	1	766.0
B	8-12-86	169	1	-0-
B	8-12-86	169	1	-0-
B	8-12-86	170	1	-0-
B	8-12-86	171	1	831.2
B	8-12-86	171	1	808.5
B	8-12-86	171	1	766.0
B	8-12-86	171	1	-0-
B	8-12-86	172	2	933.4
B	8-12-86	172	1	760.3
B	8-12-86	172	1	811.4
B	8-12-86	172	1	933.4

-Continued-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	8-12-86	172	1	828.4
B	8-12-86	173	1	720.6
B	8-12-86	173	1	723.4
B	8-12-86	174	1	-0-
B	8-12-86	175	1	879.5
B	8-12-86	175	1	-0-
B	8-12-86	175	1	-0-
B	8-12-86	175	1	893.7
B	8-12-86	176	1	836.9
B	8-12-86	176	1	899.3
B	8-12-86	176	1	936.2
B	8-12-86	176	1	896.5
B	8-12-86	177	1	978.8
B	8-12-86	177	4	-0-
B	8-12-86	178	1	868.1
B	8-12-86	178	1	902.2
B	8-12-86	178	1	856.8
B	8-12-86	178	1	848.3
B	8-12-86	178	1	-0-
B	8-12-86	178	1	-0-
B	8-12-86	179	1	1010.0
B	8-12-86	179	1	964.6
B	8-12-86	179	1	1038.3
B	8-12-86	180	1	1097.9
B	8-12-86	180	1	868.1
B	8-12-86	180	1	964.6
B	8-12-86	180	1	-0-
B	8-12-86	180	1	-0-
B	8-12-86	181	1	905.0
B	8-12-86	181	1	984.4
B	8-12-86	181	1	973.1
B	8-12-86	181	1	902.2
B	8-12-86	181	1	1046.9
B	8-12-86	181	1	-0-
B	8-12-86	182	1	1038.3
B	8-12-86	182	1	-0-
B	8-12-86	182	1	1058.2
B	8-12-86	183	2	1044.0
B	8-12-86	183	1	1035.5
B	8-12-86	183	1	933.4
B	8-12-86	183	1	978.8
B	8-12-86	183	1	-0-

-Continued-

Appendix B. (p 31 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	8-12-86	183	1	993.0
B	8-12-86	183	1	936.2
B	8-12-86	183	1	-0-
B	8-12-86	184	1	888.0
B	8-12-86	184	1	-0-
B	8-12-86	184	1	1038.3
B	8-12-86	184	1	-0-
B	8-12-86	184	1	-0-
B	8-12-86	185	1	927.7
B	8-12-86	185	1	1132.0
B	8-12-86	186	1	1007.1
B	8-12-86	186	1	1044.0
B	8-12-86	186	1	1112.1
B	8-12-86	186	1	1080.9
B	8-12-86	186	1	1106.4
B	8-12-86	186	2	1137.6
B	8-12-86	187	1	1103.6
B	8-12-86	187	1	-0-
B	8-12-86	187	1	1083.7
B	8-12-86	187	1	-0-
B	8-12-86	188	1	-0-
B	8-12-86	188	1	1078.1
B	8-12-86	189	1	1075.2
B	8-12-86	189	1	1024.2
B	8-12-86	189	1	1069.5
B	8-12-86	189	1	-0-
B	8-12-86	190	1	1063.9
B	8-12-86	190	1	1044.0
B	8-12-86	190	1	1251.1
B	8-12-86	190	1	1149.0
B	8-12-86	190	1	1166.0
B	8-12-86	190	1	1072.4
B	8-12-86	190	1	-0-
B	8-12-86	191	1	1029.8
B	8-12-86	191	1	1123.5
B	8-12-86	191	1	-0-
B	8-12-86	191	2	-0-
B	8-12-86	191	2	-0-
B	8-12-86	192	1	-0-
B	8-12-86	192	1	-0-
B	8-12-86	192	1	-0-
B	8-12-86	192	2	1157.5

-Continued-

Appendix B. (p 32 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	8-12-86	192	1	-0-
B	8-12-86	193	1	1171.7
B	8-12-86	193	1	1234.1
B	8-12-86	193	1	-0-
B	8-12-86	193	1	1228.4
B	8-12-86	193	1	1231.3
B	8-12-86	193	1	1225.6
B	8-12-86	193	1	-0-
B	8-12-86	194	2	885.1
B	8-12-86	194	1	-0-
B	8-12-86	194	1	1290.8
B	8-12-86	194	1	1078.1
B	8-12-86	194	1	-0-
B	8-12-86	195	1	-0-
B	8-12-86	195	1	1208.6
B	8-12-86	195	1	1168.8
B	8-12-86	195	1	1254.0
B	8-12-86	195	1	-0-
B	8-12-86	196	1	1114.9
B	8-12-86	196	1	1205.7
B	8-12-86	196	1	-0-
B	8-12-86	197	1	998.6
B	8-12-86	198	1	1038.3
B	8-12-86	198	1	-0-
B	8-12-86	198	2	1336.2
B	8-12-86	198	1	1049.7
B	8-12-86	198	1	-0-
B	8-12-86	199	1	-0-
B	8-12-86	199	1	1322.0
B	8-12-86	200	1	973.1
B	8-12-86	200	1	-0-
B	8-12-86	200	1	-0-
B	8-12-86	200	1	1191.5
B	8-12-86	200	1	1259.6
B	8-12-86	200	1	1427.0
B	8-12-86	202	1	1404.3
B	8-12-86	202	1	1268.1
B	8-12-86	202	1	-0-
B	8-12-86	203	4	1117.8
B	8-12-86	204	1	-0-
B	8-12-86	205	1	-0-
B	8-12-86	208	1	1066.7

-Continued-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	8-12-86	210	1	1617.1
B	8-18-86	165	1	749.0
B	8-18-86	165	1	731.9
B	8-18-86	173	1	842.6
B	8-18-86	175	1	896.5
B	8-18-86	175	1	839.8
B	8-18-86	175	1	848.3
B	8-18-86	175	1	845.4
B	8-18-86	177	1	964.6
B	8-18-86	177	1	808.5
B	8-18-86	178	1	885.1
B	8-18-86	180	1	905.0
B	8-18-86	181	1	947.6
B	8-18-86	181	1	933.4
B	8-18-86	182	1	978.8
B	8-18-86	182	1	1021.3
B	8-18-86	182	1	1024.2
B	8-18-86	182	1	1177.4
B	8-18-86	182	1	1120.6
B	8-18-86	182	1	998.6
B	8-18-86	183	1	1027.0
B	8-18-86	185	1	967.4
B	8-18-86	186	1	1157.5
B	8-18-86	186	1	1007.1
B	8-18-86	187	1	961.7
B	8-18-86	187	1	1197.2
B	8-18-86	188	1	1066.7
B	8-18-86	189	1	993.0
B	8-18-86	190	2	1194.4
B	8-18-86	190	1	1157.5
B	8-18-86	190	1	1268.1
B	8-18-86	190	1	1134.8
B	8-18-86	191	1	1251.1
B	8-18-86	191	1	1208.6
B	8-18-86	192	1	1202.9
B	8-18-86	192	1	1251.1
B	8-18-86	192	1	1248.3
B	8-18-86	193	1	1316.4
B	8-18-86	194	1	1137.6
B	8-18-86	194	1	1214.2
B	8-18-86	195	1	1214.2
B	8-18-86	195	1	1319.2

-Continued-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	8-18-86	198	1	1293.7
B	8-18-86	198	1	1347.6
B	8-18-86	198	1	1347.6
B	8-18-86	198	1	1344.7
B	8-18-86	200	1	1236.9
B	8-18-86	202	1	1276.7
B	8-18-86	202	1	1367.4
B	8-18-86	205	2	1327.7
B	8-18-86	206	1	1361.8
B	8-18-86	208	1	1466.7
B	8-31-86	163	2	-0-
B	8-31-86	164	1	-0-
B	8-31-86	164	4	-0-
B	8-31-86	164	1	700.7
B	8-31-86	164	4	-0-
B	8-31-86	164	1	-0-
B	8-31-86	164	1	-0-
B	8-31-86	165	1	-0-
B	8-31-86	165	1	-0-
B	8-31-86	165	1	-0-
B	8-31-86	165	1	751.8
B	8-31-86	165	1	-0-
B	8-31-86	165	1	-0-
B	8-31-86	165	1	-0-
B	8-31-86	165	1	700.7
B	8-31-86	165	1	-0-
B	8-31-86	165	4	-0-
B	8-31-86	165	4	-0-
B	8-31-86	165	4	-0-
B	8-31-86	165	1	641.2
B	8-31-86	166	1	-0-
B	8-31-86	166	4	-0-
B	8-31-86	166	1	-0-
B	8-31-86	166	1	-0-
B	8-31-86	166	4	-0-
B	8-31-86	167	1	-0-
B	8-31-86	167	1	-0-
B	8-31-86	167	4	-0-
B	8-31-86	167	1	-0-
B	8-31-86	167	1	-0-
B	8-31-86	168	4	-0-
B	8-31-86	168	4	-0-
B	8-31-86	168	4	780.2

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	8-31-86	168	1	763.2
B	8-31-86	168	4	-0-
B	8-31-86	168	4	-0-
B	8-31-86	168	1	743.3
B	8-31-86	169	1	-0-
B	8-31-86	169	1	-0-
B	8-31-86	169	4	-0-
B	8-31-86	170	2	-0-
B	8-31-86	170	1	-0-
B	8-31-86	170	1	-0-
B	8-31-86	170	1	-0-
B	8-31-86	170	1	-0-
B	8-31-86	170	1	-0-
B	8-31-86	170	1	749.0
B	8-31-86	170	1	-0-
B	8-31-86	170	1	819.9
B	8-31-86	170	2	-0-
B	8-31-86	171	1	-0-
B	8-31-86	171	1	-0-
B	8-31-86	171	1	859.6
B	8-31-86	171	1	-0-
B	8-31-86	171	1	-0-
B	8-31-86	172	4	-0-
B	8-31-86	172	1	-0-
B	8-31-86	172	3	675.2
B	8-31-86	172	4	802.9
B	8-31-86	173	1	865.3
B	8-31-86	173	1	-0-
B	8-31-86	173	2	853.9
B	8-31-86	173	1	865.3
B	8-31-86	174	1	-0-
B	8-31-86	174	1	924.9
B	8-31-86	175	1	-0-
B	8-31-86	175	1	-0-
B	8-31-86	175	1	865.3
B	8-31-86	175	4	-0-
B	8-31-86	175	1	-0-
B	8-31-86	175	1	825.6
B	8-31-86	175	1	902.2
B	8-31-86	176	1	828.4
B	8-31-86	176	1	916.4
B	8-31-86	176	1	882.3
B	8-31-86	177	4	780.2

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	8-31-86	177	1	964.6
B	8-31-86	177	1	924.9
B	8-31-86	178	4	805.7
B	8-31-86	178	1	916.4
B	8-31-86	178	4	709.3
B	8-31-86	179	1	-0-
B	8-31-86	179	1	-0-
B	8-31-86	180	1	-0-
B	8-31-86	180	1	-0-
B	8-31-86	180	1	916.4
B	8-31-86	180	1	-0-
B	8-31-86	181	1	885.1
B	8-31-86	181	1	939.0
B	8-31-86	182	1	981.6
B	8-31-86	182	1	927.7
B	8-31-86	182	1	-0-
B	8-31-86	183	1	995.8
B	8-31-86	183	1	-0-
B	8-31-86	183	1	990.1
B	8-31-86	184	1	981.6
B	8-31-86	184	1	1035.5
B	8-31-86	184	1	-0-
B	8-31-86	185	1	1044.0
B	8-31-86	185	1	1143.3
B	8-31-86	186	1	-0-
B	8-31-86	186	1	-0-
B	8-31-86	187	1	1021.3
B	8-31-86	187	1	-0-
B	8-31-86	188	2	1072.4
B	8-31-86	189	1	-0-
B	8-31-86	189	1	1075.2
B	8-31-86	190	1	-0-
B	8-31-86	190	2	1160.3
B	8-31-86	192	2	-0-
B	8-31-86	192	1	-0-
B	8-31-86	194	1	-0-
B	8-31-86	194	1	947.6
B	8-31-86	195	1	1299.3
B	8-31-86	195	1	1265.3
B	8-31-86	196	1	1285.2
B	8-31-86	196	1	1367.4
B	8-31-86	197	1	1254.0

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	8-31-86	198	1	1285.2
B	8-31-86	198	1	1157.5
B	8-31-86	198	1	1239.8
B	8-31-86	200	1	1446.9
B	8-31-86	200	1	1285.2
B	8-31-86	210	1	1492.3
B	9- 9-86	164	1	-0-
B	9- 9-86	164	1	-0-
B	9- 9-86	165	1	-0-
B	9- 9-86	165	1	-0-
B	9- 9-86	167	1	-0-
B	9- 9-86	168	1	-0-
B	9- 9-86	168	1	-0-
B	9- 9-86	168	1	808.5
B	9- 9-86	168	1	-0-
B	9- 9-86	169	1	825.6
B	9- 9-86	170	1	-0-
B	9- 9-86	170	1	-0-
B	9- 9-86	171	1	-0-
B	9- 9-86	171	1	-0-
B	9- 9-86	172	1	-0-
B	9- 9-86	173	1	-0-
B	9- 9-86	174	1	-0-
B	9- 9-86	174	1	-0-
B	9- 9-86	175	1	-0-
B	9- 9-86	175	1	-0-
B	9- 9-86	176	1	-0-
B	9- 9-86	177	1	-0-
B	9- 9-86	177	1	-0-
B	9- 9-86	177	1	-0-
B	9- 9-86	177	1	1038.3
B	9- 9-86	181	1	961.7
B	9- 9-86	185	1	-0-
B	9- 9-86	185	1	-0-
B	9- 9-86	185	1	-0-
B	9- 9-86	186	1	-0-
B	9- 9-86	186	1	-0-
B	9- 9-86	188	1	-0-
B	9- 9-86	190	1	-0-
B	9- 9-86	190	1	-0-
B	9- 9-86	190	1	-0-
B	9- 9-86	192	1	-0-

-Continued-

Appendix B. (p 38 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	9- 9-86	193	1	-0-
B	9- 9-86	196	1	-0-
B	9- 9-86	197	1	-0-
B	9- 9-86	197	1	-0-
B	9- 9-86	199	1	-0-
B	9- 9-86	200	1	-0-
B	9- 9-86	200	1	-0-
B	9- 9-86	201	1	1265.3
B	9- 9-86	202	1	-0-
B	9- 9-86	203	1	-0-
B	9- 9-86	203	1	-0-
B	9- 9-86	203	1	-0-
B	9- 9-86	207	1	1668.2
B	9- 9-86	210	1	-0-
B	9-15-86	165	1	-0-
B	9-15-86	168	1	-0-
B	9-15-86	169	1	-0-
B	9-15-86	169	1	-0-
B	9-15-86	169	1	-0-
B	9-15-86	169	1	-0-
B	9-15-86	170	4	-0-
B	9-15-86	172	1	-0-
B	9-15-86	173	1	-0-
B	9-15-86	176	1	-0-
B	9-15-86	177	1	-0-
B	9-15-86	177	1	-0-
B	9-15-86	178	1	-0-
B	9-15-86	179	1	-0-
B	9-15-86	179	1	-0-
B	9-15-86	179	1	-0-
B	9-15-86	179	1	-0-
B	9-15-86	180	1	-0-
B	9-15-86	180	4	-0-
B	9-15-86	180	1	-0-
B	9-15-86	181	1	-0-
B	9-15-86	181	1	-0-
B	9-15-86	182	1	-0-
B	9-15-86	182	1	-0-
B	9-15-86	183	1	-0-
B	9-15-86	183	1	-0-
B	9-15-86	183	1	-0-
B	9-15-86	183	1	-0-

-Continued-

Appendix B. (p 39 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	9-15-86	183	1	-0-
B	9-15-86	183	1	-0-
B	9-15-86	185	1	-0-
B	9-15-86	187	1	-0-
B	9-15-86	189	1	-0-
B	9-15-86	189	1	-0-
B	9-15-86	189	1	-0-
B	9-15-86	189	1	-0-
B	9-15-86	190	1	-0-
B	9-15-86	190	1	-0-
B	9-15-86	190	1	-0-
B	9-15-86	190	1	-0-
B	9-15-86	191	1	-0-
B	9-15-86	191	1	-0-
B	9-15-86	193	1	-0-
B	9-15-86	193	1	-0-
B	9-15-86	195	1	-0-
B	9-15-86	195	1	-0-
B	9-15-86	195	1	-0-
B	9-15-86	196	1	-0-
B	9-15-86	196	1	-0-
B	9-15-86	196	1	-0-
B	9-15-86	202	1	-0-
B	9-30-86	165	1	-0-
B	9-30-86	168	1	-0-
B	9-30-86	168	1	-0-
B	9-30-86	174	1	-0-
B	9-30-86	175	1	-0-
B	9-30-86	176	1	-0-
B	9-30-86	176	1	-0-
B	9-30-86	176	1	-0-
B	9-30-86	176	1	-0-
B	9-30-86	177	1	-0-
B	9-30-86	177	1	-0-
B	9-30-86	178	1	-0-
B	9-30-86	178	1	-0-
B	9-30-86	180	1	-0-
B	9-30-86	181	1	-0-
B	9-30-86	181	1	-0-
B	9-30-86	182	1	-0-
B	9-30-86	182	1	-0-
B	9-30-86	183	1	-0-
B	9-30-86	184	1	-0-

-Continued-

Appendix B. (p 40 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	9-30-86	184	1	-0-
B	9-30-86	185	1	-0-
B	9-30-86	185	1	-0-
B	9-30-86	185	1	-0-
B	9-30-86	185	1	-0-
B	9-30-86	185	1	-0-
B	9-30-86	186	1	-0-
B	9-30-86	186	1	-0-
B	9-30-86	189	1	-0-
B	9-30-86	190	1	-0-
B	9-30-86	190	1	-0-
B	9-30-86	190	1	-0-
B	9-30-86	192	1	-0-
B	9-30-86	194	1	-0-
B	9-30-86	196	1	-0-
B	9-30-86	196	1	-0-
B	9-30-86	196	1	-0-
B	9-30-86	197	1	-0-
B	9-30-86	197	1	-0-
B	9-30-86	197	1	-0-
B	9-30-86	197	1	-0-
B	9-30-86	197	1	-0-
B	9-30-86	198	1	-0-
B	9-30-86	199	1	-0-
B	9-30-86	199	1	-0-
B	9-30-86	200	1	-0-
B	9-30-86	200	1	-0-
B	9-30-86	201	1	-0-
B	9-30-86	201	1	-0-
B	9-30-86	202	1	-0-
B	9-30-86	209	1	-0-
B	10- 6-86	164	1	649.7
B	10- 6-86	165	1	717.8
B	10- 6-86	170	1	729.1
B	10- 6-86	170	1	797.2
B	10- 6-86	170	1	836.9
B	10- 6-86	170	1	800.0
B	10- 6-86	174	1	811.4
B	10- 6-86	174	1	910.7
B	10- 6-86	175	1	998.6
B	10- 6-86	175	1	842.6
B	10- 6-86	177	1	930.5
B	10- 6-86	177	1	865.3

-Continued-

Appendix B. (p 41 of 82)

SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	10- 6-86	178	1	780.2
B	10- 6-86	179	2	964.6
B	10- 6-86	180	1	1027.0
B	10- 6-86	180	1	941.9
B	10- 6-86	180	1	1134.8
B	10- 6-86	180	2	950.4
B	10- 6-86	180	1	950.4
B	10- 6-86	180	1	1018.5
B	10- 6-86	181	1	907.8
B	10- 6-86	181	1	995.8
B	10- 6-86	182	1	961.7
B	10- 6-86	184	1	1027.0
B	10- 6-86	185	1	1032.7
B	10- 6-86	185	1	944.7
B	10- 6-86	185	1	987.3
B	10- 6-86	186	1	1132.0
B	10- 6-86	187	1	1168.8
B	10- 6-86	188	1	1069.5
B	10- 6-86	189	1	1123.5
B	10- 6-86	189	1	1117.8
B	10- 6-86	189	1	1015.6
B	10- 6-86	190	1	1058.2
B	10- 6-86	190	1	1140.5
B	10- 6-86	190	4	1194.4
B	10- 6-86	191	1	1146.1
B	10- 6-86	193	1	1239.8
B	10- 6-86	194	1	1188.7
B	10- 6-86	197	1	1256.8
B	10- 6-86	198	1	1268.1
B	10- 6-86	204	1	1364.6
B	10- 6-86	207	1	1495.1
B	10- 8-86	162	2	618.5
B	10- 8-86	163	1	669.5
B	10- 8-86	163	2	-0-
B	10- 8-86	164	1	740.5
B	10- 8-86	165	1	-0-
B	10- 8-86	165	2	757.5
B	10- 8-86	167	1	777.3
B	10- 8-86	167	1	-0-
B	10- 8-86	167	1	757.5
B	10- 8-86	167	1	731.9
B	10- 8-86	167	2	-0-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	10- 8-86	167	2	-0-
B	10- 8-86	168	1	785.8
B	10- 8-86	169	1	780.2
B	10- 8-86	169	1	-0-
B	10- 8-86	169	1	737.6
B	10- 8-86	170	1	-0-
B	10- 8-86	170	1	-0-
B	10- 8-86	172	1	-0-
B	10- 8-86	172	1	882.3
B	10- 8-86	173	1	-0-
B	10- 8-86	173	2	-0-
B	10- 8-86	173	1	856.8
B	10- 8-86	174	1	873.8
B	10- 8-86	174	1	-0-
B	10- 8-86	174	1	-0-
B	10- 8-86	175	1	817.1
B	10- 8-86	175	1	939.0
B	10- 8-86	175	1	-0-
B	10- 8-86	176	1	-0-
B	10- 8-86	176	2	-0-
B	10- 8-86	177	1	930.5
B	10- 8-86	177	1	941.9
B	10- 8-86	177	1	-0-
B	10- 8-86	177	2	692.2
B	10- 8-86	178	1	-0-
B	10- 8-86	180	1	882.3
B	10- 8-86	180	1	990.1
B	10- 8-86	180	1	-0-
B	10- 8-86	180	1	-0-
B	10- 8-86	181	1	-0-
B	10- 8-86	181	1	-0-
B	10- 8-86	181	1	1058.2
B	10- 8-86	181	1	-0-
B	10- 8-86	181	1	-0-
B	10- 8-86	182	1	-0-
B	10- 8-86	182	1	882.3
B	10- 8-86	182	1	1069.5
B	10- 8-86	182	1	-0-
B	10- 8-86	182	1	-0-
B	10- 8-86	183	1	1018.5
B	10- 8-86	184	1	-0-

-Continued-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	10- 8-86	184	1	-0-
B	10- 8-86	185	1	944.7
B	10- 8-86	185	1	961.7
B	10- 8-86	185	1	-0-
B	10- 8-86	185	1	1086.6
B	10- 8-86	185	1	1092.2
B	10- 8-86	185	1	-0-
B	10- 8-86	186	1	-0-
B	10- 8-86	186	1	-0-
B	10- 8-86	187	1	1092.2
B	10- 8-86	187	1	1055.4
B	10- 8-86	187	1	1151.8
B	10- 8-86	187	1	-0-
B	10- 8-86	187	1	1049.7
B	10- 8-86	188	1	-0-
B	10- 8-86	189	1	1066.7
B	10- 8-86	189	1	-0-
B	10- 8-86	190	1	-0-
B	10- 8-86	190	1	-0-
B	10- 8-86	190	1	-0-
B	10- 8-86	190	1	-0-
B	10- 8-86	190	1	1004.3
B	10- 8-86	190	1	1078.1
B	10- 8-86	190	1	-0-
B	10- 8-86	191	1	-0-
B	10- 8-86	192	2	1236.9
B	10- 8-86	193	1	-0-
B	10- 8-86	193	1	1157.5
B	10- 8-86	193	1	1217.1
B	10- 8-86	194	1	1208.6
B	10- 8-86	194	1	-0-
B	10- 8-86	195	4	1333.4
B	10- 8-86	195	1	1185.9
B	10- 8-86	195	1	1058.2
B	10- 8-86	196	1	-0-
B	10- 8-86	196	1	-0-
B	10- 8-86	199	1	1356.1
B	10- 8-86	199	4	1404.3
B	10- 8-86	199	1	1319.2
B	10- 8-86	200	1	1341.9
B	10- 8-86	200	1	1446.9
B	10- 8-86	200	1	1341.9

-Continued-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	10- 8-86	200	1	1285.2
B	10- 8-86	200	1	-0-
B	10- 8-86	202	1	-0-
B	10- 8-86	202	1	-0-
B	10- 8-86	202	1	-0-
B	10- 8-86	203	1	-0-
B	10- 8-86	204	1	1407.2
B	10-28-86	172	1	-0-
B	10-28-86	177	1	-0-
B	10-28-86	179	1	939.0
B	10-28-86	181	4	910.7
B	10-28-86	181	4	1075.2
B	10-28-86	181	1	-0-
B	10-28-86	182	1	-0-
B	10-28-86	182	1	-0-
B	10-28-86	184	1	-0-
B	10-28-86	185	1	-0-
B	10-28-86	185	1	-0-
B	10-28-86	185	1	-0-
B	10-28-86	185	1	-0-
B	10-28-86	187	1	1058.2
B	10-28-86	189	1	-0-
B	10-28-86	190	1	1132.0
B	10-28-86	190	1	-0-
B	10-28-86	190	1	1129.1
B	10-28-86	190	1	-0-
B	10-28-86	190	1	-0-
B	10-28-86	190	1	-0-
B	10-28-86	190	1	-0-
B	10-28-86	191	1	-0-
B	10-28-86	192	1	-0-
B	10-28-86	192	1	-0-
B	10-28-86	192	1	-0-
B	10-28-86	192	1	-0-
B	10-28-86	193	1	-0-
B	10-28-86	194	1	-0-
B	10-28-86	194	1	-0-
B	10-28-86	195	1	-0-
B	10-28-86	195	1	-0-
B	10-28-86	197	1	-0-

-Continued-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
B	10-28-86	197	1	-0-
B	10-28-86	198	1	-0-
B	10-28-86	202	1	1421.3
B	10-28-86	203	1	-0-
B	10-28-86	204	1	-0-
B	10-28-86	204	1	-0-
B	10-28-86	205	1	-0-
B	10-28-86	205	1	-0-
B	10-28-86	205	1	-0-
B	10-28-86	205	1	-0-
B	10-28-86	206	1	-0-
B	10-28-86	207	1	-0-
B	10-28-86	208	1	-0-
B	10-28-86	209	1	-0-
B	10-28-86	218	1	-0-
C (SE)	6-24-86	163	1	720.6
C	6-24-86	163	1	731.9
C	6-24-86	164	4	598.6
C	6-24-86	164	1	592.9
C	6-24-86	164	1	723.4
C	6-24-86	164	1	697.9
C	6-24-86	165	1	743.3
C	6-24-86	165	1	774.5
C	6-24-86	165	1	749.0
C	6-24-86	165	1	695.1
C	6-24-86	165	1	680.9
C	6-24-86	165	1	746.1
C	6-24-86	165	2	757.5
C	6-24-86	165	1	737.6
C	6-24-86	165	1	683.7
C	6-24-86	165	1	794.4
C	6-24-86	165	1	768.8
C	6-24-86	165	1	666.7
C	6-24-86	165	1	783.0
C	6-24-86	165	1	777.3
C	6-24-86	166	1	811.4
C	6-24-86	166	1	774.5
C	6-24-86	167	1	774.5
C	6-24-86	167	1	785.8
C	6-24-86	167	1	865.3
C	6-24-86	167	1	797.2
C	6-24-86	167	1	768.8

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
C	6-24-86	167	1	785.8
C	6-24-86	168	1	729.1
C	6-24-86	168	1	751.8
C	6-24-86	168	1	825.6
C	6-24-86	169	1	785.8
C	6-24-86	169	1	811.4
C	6-24-86	169	1	825.6
C	6-24-86	169	1	794.4
C	6-24-86	170	1	845.4
C	6-24-86	170	2	666.7
C	6-24-86	170	1	791.5
C	6-24-86	170	1	893.7
C	6-24-86	171	1	749.0
C	6-24-86	172	1	746.1
C	6-24-86	172	1	862.4
C	6-24-86	172	1	697.9
C	6-24-86	172	1	836.9
C	6-24-86	172	1	834.1
C	6-24-86	172	1	819.9
C	6-24-86	173	1	822.7
C	6-24-86	173	1	922.0
C	6-24-86	173	1	751.8
C	6-24-86	174	1	890.8
C	6-24-86	174	1	941.9
C	6-24-86	174	1	930.5
C	6-24-86	174	1	859.6
C	6-24-86	174	1	924.9
C	6-24-86	174	1	941.9
C	6-24-86	175	1	936.2
C	6-24-86	175	1	876.6
C	6-24-86	175	1	851.1
C	6-24-86	175	1	885.1
C	6-24-86	176	1	862.4
C	6-24-86	176	1	853.9
C	6-24-86	177	1	939.0
C	6-24-86	177	1	930.5
C	6-24-86	177	1	919.2
C	6-24-86	177	1	993.0
C	6-24-86	178	1	893.7
C	6-24-86	179	1	885.1
C	6-24-86	179	1	856.8
C	6-24-86	180	1	1066.7

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
C	6-24-86	181	2	978.8
C	6-24-86	181	1	998.6
C	6-24-86	181	2	995.8
C	6-24-86	182	1	1007.1
C	6-24-86	183	1	1063.9
C	6-24-86	183	1	1083.7
C	6-24-86	184	1	1061.0
C	6-24-86	185	1	1083.7
C	6-24-86	185	1	1046.9
C	6-24-86	185	1	1046.9
C	6-24-86	186	1	1046.9
C	6-24-86	186	1	1177.4
C	6-24-86	188	1	1174.5
C	6-24-86	188	1	1072.4
C	6-24-86	188	1	1132.0
C	6-24-86	189	1	1106.4
C	6-24-86	191	1	1219.9
C	6-24-86	191	1	1222.7
C	6-24-86	192	1	1100.8
C	6-24-86	192	1	1180.2
C	6-24-86	192	1	1183.0
C	6-24-86	192	1	1234.1
C	6-24-86	194	1	1214.2
C	6-24-86	195	1	1316.4
C	6-24-86	195	2	1290.8
C	6-24-86	197	2	1307.9
C	6-24-86	198	1	1401.5
C	6-24-86	199	2	1322.0
C	6-24-86	199	1	768.8
C	6-24-86	203	1	1486.6
C	6-24-86	204	1	1645.5
C	6-24-86	208	2	1602.9
C	6-30-86	161	1	-0-
C	6-30-86	162	1	-0-
C	6-30-86	162	2	-0-
C	6-30-86	162	1	729.1
C	6-30-86	163	1	-0-
C	6-30-86	163	1	-0-
C	6-30-86	163	1	737.6
C	6-30-86	163	1	-0-
C	6-30-86	164	1	-0-
C	6-30-86	164	1	-0-

-Continued-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
C	6-30-86	164	1	-0-
C	6-30-86	164	1	-0-
C	6-30-86	164	1	-0-
C	6-30-86	164	1	-0-
C	6-30-86	164	1	-0-
C	6-30-86	164	1	-0-
C	6-30-86	165	1	836.9
C	6-30-86	165	1	-0-
C	6-30-86	165	1	-0-
C	6-30-86	165	1	-0-
C	6-30-86	165	1	-0-
C	6-30-86	165	1	-0-
C	6-30-86	165	1	802.9
C	6-30-86	165	1	-0-
C	6-30-86	165	1	-0-
C	6-30-86	165	1	-0-
C	6-30-86	165	1	-0-
C	6-30-86	165	1	-0-
C	6-30-86	165	1	-0-
C	6-30-86	165	1	794.4
C	6-30-86	165	2	-0-
C	6-30-86	165	1	-0-
C	6-30-86	165	1	689.4
C	6-30-86	165	1	-0-
C	6-30-86	165	1	785.8
C	6-30-86	165	2	783.0
C	6-30-86	165	2	-0-
C	6-30-86	166	1	726.3
C	6-30-86	166	1	-0-
C	6-30-86	166	1	-0-
C	6-30-86	166	1	723.4
C	6-30-86	166	1	783.0
C	6-30-86	167	1	-0-
C	6-30-86	167	1	-0-
C	6-30-86	167	1	-0-
C	6-30-86	167	1	-0-
C	6-30-86	167	1	754.6
C	6-30-86	167	1	-0-
C	6-30-86	167	1	731.9
C	6-30-86	167	1	717.8
C	6-30-86	167	1	-0-
C	6-30-86	168	1	-0-
C	6-30-86	168	1	-0-

-Continued-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
C	6-30-86	168	1	-0-
C	6-30-86	168	1	-0-
C	6-30-86	168	1	-0-
C	6-30-86	168	1	-0-
C	6-30-86	168	1	-0-
C	6-30-86	168	1	-0-
C	6-30-86	168	1	-0-
C	6-30-86	169	1	-0-
C	6-30-86	169	1	-0-
C	6-30-86	169	1	-0-
C	6-30-86	169	1	-0-
C	6-30-86	169	1	-0-
C	6-30-86	169	1	-0-
C	6-30-86	169	1	871.0
C	6-30-86	169	1	-0-
C	6-30-86	170	1	-0-
C	6-30-86	170	1	-0-
C	6-30-86	170	2	-0-
C	6-30-86	170	1	-0-
C	6-30-86	170	1	-0-
C	6-30-86	170	1	-0-
C	6-30-86	170	1	-0-
C	6-30-86	171	1	-0-
C	6-30-86	171	1	-0-
C	6-30-86	171	1	842.6
C	6-30-86	171	1	-0-
C	6-30-86	172	1	-0-
C	6-30-86	172	1	-0-
C	6-30-86	172	1	-0-
C	6-30-86	172	1	836.9
C	6-30-86	172	1	845.4
C	6-30-86	172	1	-0-
C	6-30-86	172	1	-0-
C	6-30-86	172	1	766.0
C	6-30-86	172	1	-0-
C	6-30-86	173	1	-0-
C	6-30-86	174	1	939.0
C	6-30-86	174	1	-0-
C	6-30-86	174	1	913.5
C	6-30-86	175	1	882.3
C	6-30-86	175	1	-0-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
C	6-30-86	175	1	831.2
C	6-30-86	175	1	-0-
C	6-30-86	176	1	-0-
C	6-30-86	176	1	-0-
C	6-30-86	176	1	777.3
C	6-30-86	177	1	-0-
C	6-30-86	177	1	-0-
C	6-30-86	177	1	-0-
C	6-30-86	177	1	958.9
C	6-30-86	177	1	907.8
C	6-30-86	177	1	-0-
C	6-30-86	177	1	-0-
C	6-30-86	177	1	-0-
C	6-30-86	178	1	1021.3
C	6-30-86	178	2	-0-
C	6-30-86	178	1	-0-
C	6-30-86	178	1	978.8
C	6-30-86	178	1	961.7
C	6-30-86	178	1	-0-
C	6-30-86	178	1	1027.0
C	6-30-86	179	2	-0-
C	6-30-86	179	1	939.0
C	6-30-86	179	1	-0-
C	6-30-86	180	1	1007.1
C	6-30-86	180	2	-0-
C	6-30-86	180	1	1012.8
C	6-30-86	181	1	927.7
C	6-30-86	181	1	-0-
C	6-30-86	181	1	-0-
C	6-30-86	182	1	-0-
C	6-30-86	182	1	1027.0
C	6-30-86	182	1	-0-
C	6-30-86	182	1	-0-
C	6-30-86	182	1	-0-
C	6-30-86	182	1	-0-
C	6-30-86	182	1	-0-
C	6-30-86	182	1	-0-
C	6-30-86	183	1	1063.9
C	6-30-86	183	1	-0-
C	6-30-86	183	1	-0-
C	6-30-86	183	1	-0-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
C	6-30-86	183	1	-0-
C	6-30-86	183	1	-0-
C	6-30-86	184	1	-0-
C	6-30-86	184	1	1041.2
C	6-30-86	184	1	1086.6
C	6-30-86	184	1	-0-
C	6-30-86	185	1	973.1
C	6-30-86	185	1	1027.0
C	6-30-86	185	1	-0-
C	6-30-86	186	1	1126.3
C	6-30-86	186	1	1097.9
C	6-30-86	187	1	1012.8
C	6-30-86	187	1	-0-
C	6-30-86	187	1	-0-
C	6-30-86	187	1	-0-
C	6-30-86	187	1	-0-
C	6-30-86	188	1	-0-
C	6-30-86	188	1	-0-
C	6-30-86	188	2	-0-
C	6-30-86	188	1	-0-
C	6-30-86	188	1	-0-
C	6-30-86	189	1	-0-
C	6-30-86	190	1	1143.3
C	6-30-86	191	1	1132.0
C	6-30-86	192	1	1256.8
C	6-30-86	192	1	-0-
C	6-30-86	192	2	-0-
C	6-30-86	194	1	-0-
C	6-30-86	195	1	-0-
C	6-30-86	195	1	-0-
C	6-30-86	196	1	1171.7
C	6-30-86	197	1	-0-
C	6-30-86	197	1	-0-
C	6-30-86	197	1	-0-
C	6-30-86	198	1	-0-
C	6-30-86	199	1	-0-
C	6-30-86	201	1	1401.5
C	6-30-86	202	1	-0-
C	6-30-86	202	2	-0-
C	6-30-86	203	1	1532.0
C	6-30-86	205	1	1497.9
C	6-30-86	206	1	1489.4

-Continued-

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<u>SECTION</u>	<u>DATE</u>	<u>WIDTH</u>	<u>SHELLAGE</u>	<u>WEIGHT^a</u>
C	6-30-86	207	1	-0-
C	6-30-86	208	2	1688.0
C	6-30-86	208	1	-0-
C	6-30-86	208	1	1602.9
C	6-30-86	212	1	-0-
C	7-19-86	162	1	635.5
C	7-19-86	163	1	729.1
C	7-19-86	163	1	757.5
C	7-19-86	163	1	709.3
C	7-19-86	164	1	697.9
C	7-19-86	165	1	646.8
C	7-19-86	165	1	661.0
C	7-19-86	165	1	587.3
C	7-19-86	165	1	780.2
C	7-19-86	165	1	669.5
C	7-19-86	166	1	729.1
C	7-19-86	167	1	731.9
C	7-19-86	167	1	751.8
C	7-19-86	168	1	686.6
C	7-19-86	168	1	873.8
C	7-19-86	168	1	672.4
C	7-19-86	168	1	689.4
C	7-19-86	168	1	734.8
C	7-19-86	169	1	853.9
C	7-19-86	169	1	714.9
C	7-19-86	169	1	740.5
C	7-19-86	169	1	720.6
C	7-19-86	169	1	839.8
C	7-19-86	169	1	737.6
C	7-19-86	169	1	757.5
C	7-19-86	170	1	836.9
C	7-19-86	170	1	703.6
C	7-19-86	171	1	828.4
C	7-19-86	171	1	720.6
C	7-19-86	171	1	802.9
C	7-19-86	171	1	794.4
C	7-19-86	171	1	805.7
C	7-19-86	172	1	831.2
C	7-19-86	172	1	666.7
C	7-19-86	173	1	839.8
C	7-19-86	173	1	788.7
C	7-19-86	173	1	797.2

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
C	7-19-86	173	1	910.7
C	7-19-86	173	1	788.7
C	7-19-86	174	1	825.6
C	7-19-86	174	1	950.4
C	7-19-86	174	1	890.8
C	7-19-86	175	1	763.2
C	7-19-86	175	1	916.4
C	7-19-86	175	1	797.2
C	7-19-86	176	1	981.6
C	7-19-86	176	1	958.9
C	7-19-86	176	1	839.8
C	7-19-86	176	1	825.6
C	7-19-86	176	1	853.9
C	7-19-86	176	1	836.9
C	7-19-86	177	1	695.1
C	7-19-86	177	1	888.0
C	7-19-86	178	2	958.9
C	7-19-86	179	1	1012.8
C	7-19-86	179	1	907.8
C	7-19-86	179	1	853.9
C	7-19-86	179	1	859.6
C	7-19-86	180	1	961.7
C	7-19-86	181	1	1024.2
C	7-19-86	181	1	1120.6
C	7-19-86	181	1	839.8
C	7-19-86	181	1	916.4
C	7-19-86	182	1	973.1
C	7-19-86	182	1	1010.0
C	7-19-86	182	1	1010.0
C	7-19-86	183	1	1018.5
C	7-19-86	184	1	998.6
C	7-19-86	185	1	1103.6
C	7-19-86	185	1	1080.9
C	7-19-86	185	1	1052.5
C	7-19-86	185	1	1123.5
C	7-19-86	186	1	1063.9
C	7-19-86	187	1	1092.2
C	7-19-86	188	1	888.0
C	7-19-86	188	1	780.2
C	7-19-86	190	1	1191.5
C	7-19-86	190	1	1154.7
C	7-19-86	190	1	1027.0

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
C	7-19-86	191	1	1194.4
C	7-19-86	192	1	1234.1
C	7-19-86	193	1	1265.3
C	7-19-86	193	1	1143.3
C	7-19-86	194	2	1268.1
C	7-19-86	194	1	1239.8
C	7-19-86	194	1	1239.8
C	7-19-86	196	1	1288.0
C	7-19-86	196	1	1166.0
C	7-19-86	198	1	1177.4
C	7-19-86	198	1	1316.4
C	7-19-86	199	1	1256.8
C	7-19-86	199	1	1341.9
C	7-19-86	200	2	1324.9
C	7-19-86	200	1	1097.9
C	7-19-86	201	1	1378.8
C	7-19-86	202	1	1571.7
C	7-19-86	205	1	1466.7
C	7-19-86	205	1	1480.9
C	7-19-86	211	1	1611.4
C	7-19-86	212	1	1645.5
C	7-19-86	214	2	1551.8
C	8-10-86	164	1	-0-
C	8-10-86	164	1	-0-
C	8-10-86	165	1	-0-
C	8-10-86	166	1	-0-
C	8-10-86	166	1	-0-
C	8-10-86	166	1	-0-
C	8-10-86	168	1	-0-
C	8-10-86	171	1	-0-
C	8-10-86	172	1	-0-
C	8-10-86	176	1	-0-
C	8-10-86	178	1	-0-
C	8-10-86	178	1	-0-
C	8-10-86	178	1	-0-
C	8-10-86	179	1	-0-
C	8-10-86	181	1	-0-
C	8-10-86	181	1	-0-
C	8-10-86	182	1	-0-
C	8-10-86	183	1	-0-
C	8-10-86	183	1	-0-
C	8-10-86	184	1	-0-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
C	8-10-86	185	1	-0-
C	8-10-86	186	1	-0-
C	8-10-86	187	1	-0-
C	8-10-86	187	1	-0-
C	8-10-86	188	1	-0-
C	8-10-86	188	1	-0-
C	8-10-86	189	1	-0-
C	8-10-86	190	1	-0-
C	8-10-86	191	1	-0-
C	8-10-86	191	1	-0-
C	8-10-86	192	1	-0-
C	8-10-86	192	1	-0-
C	8-10-86	193	1	-0-
C	8-10-86	193	1	-0-
C	8-10-86	194	1	-0-
C	8-10-86	195	1	-0-
C	8-10-86	196	1	-0-
C	8-10-86	198	1	-0-
C	8-10-86	198	1	-0-
C	8-10-86	199	1	-0-
C	8-10-86	200	1	-0-
C	8-10-86	200	1	-0-
C	8-10-86	201	1	-0-
C	8-10-86	201	1	-0-
C	8-10-86	202	1	-0-
C	8-10-86	202	1	-0-
C	8-10-86	203	1	-0-
C	8-10-86	203	1	-0-
C	8-10-86	203	1	-0-
C	8-10-86	203	1	-0-
C	8-10-86	207	1	-0-
C	8-10-86	209	1	-0-
C	8-10-86	211	1	-0-
C	8-10-86	211	1	-0-
C	8-10-86	213	1	-0-
C	8-13-86	164	1	649.7
C	8-13-86	164	1	771.7
C	8-13-86	164	1	794.4
C	8-13-86	164	1	686.6
C	8-13-86	165	1	661.0
C	8-13-86	165	1	672.4
C	8-13-86	166	1	760.3

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
C	8-13-86	166	1	794.4
C	8-13-86	167	1	714.9
C	8-13-86	168	1	780.2
C	8-13-86	168	1	805.7
C	8-13-86	169	1	785.8
C	8-13-86	170	1	825.6
C	8-13-86	170	1	836.9
C	8-13-86	170	1	723.4
C	8-13-86	171	1	788.7
C	8-13-86	171	1	757.5
C	8-13-86	176	1	879.5
C	8-13-86	178	1	902.2
C	8-13-86	178	1	907.8
C	8-13-86	179	2	907.8
C	8-13-86	180	1	890.8
C	8-13-86	180	1	873.8
C	8-13-86	180	1	890.8
C	8-13-86	181	1	981.6
C	8-13-86	181	1	1004.3
C	8-13-86	182	1	973.1
C	8-13-86	182	1	871.0
C	8-13-86	184	1	907.8
C	8-13-86	185	1	956.1
C	8-13-86	187	1	873.8
C	8-13-86	187	1	1202.9
C	8-13-86	189	1	924.9
C	8-13-86	190	1	1151.8
C	8-13-86	194	1	1151.8
C	8-13-86	195	1	1276.7
C	8-13-86	198	1	1279.5
C	8-13-86	217	2	1662.5
D (SW)	7-24-86	164	1	746.1
D	7-24-86	164	2	666.7
D	7-24-86	164	1	751.8
D	7-24-86	164	4	749.0
D	7-24-86	164	1	686.6
D	7-24-86	164	1	743.3
D	7-24-86	165	1	669.5
D	7-24-86	165	1	760.3
D	7-24-86	165	2	763.2
D	7-24-86	166	1	697.9
D	7-24-86	166	1	785.8

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
D	7-24-86	166	1	788.7
D	7-24-86	167	1	780.2
D	7-24-86	167	1	757.5
D	7-24-86	168	1	780.2
D	7-24-86	168	2	760.3
D	7-24-86	169	2	734.8
D	7-24-86	170	1	862.4
D	7-24-86	170	1	777.3
D	7-24-86	170	1	785.8
D	7-24-86	170	1	797.2
D	7-24-86	172	4	785.8
D	7-24-86	172	4	800.0
D	7-24-86	173	1	916.4
D	7-24-86	173	1	922.0
D	7-24-86	173	1	871.0
D	7-24-86	173	1	743.3
D	7-24-86	174	2	888.0
D	7-24-86	174	1	856.8
D	7-24-86	175	4	871.0
D	7-24-86	176	1	834.1
D	7-24-86	177	1	868.1
D	7-24-86	177	1	913.5
D	7-24-86	177	1	978.8
D	7-24-86	177	1	964.6
D	7-24-86	178	1	958.9
D	7-24-86	178	1	922.0
D	7-24-86	178	4	941.9
D	7-24-86	178	1	970.3
D	7-24-86	178	1	913.5
D	7-24-86	179	4	910.7
D	7-24-86	180	4	885.1
D	7-24-86	182	1	970.3
D	7-24-86	182	1	993.0
D	7-24-86	182	1	1007.1
D	7-24-86	183	2	1086.6
D	7-24-86	183	1	1012.8
D	7-24-86	183	1	1029.8
D	7-24-86	183	1	930.5
D	7-24-86	187	1	1112.1
D	7-24-86	192	1	1120.6
D	7-31-86	164	1	-0-
D	7-31-86	164	1	-0-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
D	7-31-86	164	2	-0-
D	7-31-86	164	1	-0-
D	7-31-86	165	1	-0-
D	7-31-86	166	1	-0-
D	7-31-86	166	1	-0-
D	7-31-86	166	1	-0-
D	7-31-86	166	1	-0-
D	7-31-86	166	1	-0-
D	7-31-86	167	1	-0-
D	7-31-86	167	1	-0-
D	7-31-86	168	1	-0-
D	7-31-86	170	1	-0-
D	7-31-86	170	1	-0-
D	7-31-86	170	1	-0-
D	7-31-86	170	1	-0-
D	7-31-86	170	1	-0-
D	7-31-86	170	1	-0-
D	7-31-86	171	4	-0-
D	7-31-86	171	1	-0-
D	7-31-86	171	1	-0-
D	7-31-86	172	1	-0-
D	7-31-86	173	1	-0-
D	7-31-86	173	1	-0-
D	7-31-86	173	1	-0-
D	7-31-86	174	1	-0-
D	7-31-86	176	1	-0-
D	7-31-86	176	1	-0-
D	7-31-86	176	1	-0-
D	7-31-86	176	1	-0-
D	7-31-86	177	2	-0-
D	7-31-86	178	1	-0-
D	7-31-86	179	1	-0-
D	7-31-86	179	1	-0-
D	7-31-86	179	1	-0-
D	7-31-86	180	1	-0-
D	7-31-86	182	1	-0-
D	7-31-86	182	1	-0-
D	7-31-86	184	1	-0-
D	7-31-86	184	1	-0-
D	7-31-86	184	1	-0-

-Continued-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
D	7-31-86	185	1	-0-
D	7-31-86	186	2	-0-
D	7-31-86	190	1	-0-
D	7-31-86	190	1	-0-
D	7-31-86	191	1	-0-
D	7-31-86	192	1	-0-
F (W)	5-15-86	164	1	726.3
F	5-15-86	165	1	751.8
F	5-15-86	165	1	757.5
F	5-15-86	165	1	788.7
F	5-15-86	165	2	661.0
F	5-15-86	165	1	737.6
F	5-15-86	165	4	785.8
F	5-15-86	165	1	695.1
F	5-15-86	166	2	746.1
F	5-15-86	166	4	737.6
F	5-15-86	167	1	723.4
F	5-15-86	167	1	731.9
F	5-15-86	168	1	760.3
F	5-15-86	168	1	825.6
F	5-15-86	169	1	734.8
F	5-15-86	169	1	805.7
F	5-15-86	169	2	717.8
F	5-15-86	169	1	885.1
F	5-15-86	170	1	817.1
F	5-15-86	170	1	791.5
F	5-15-86	170	4	760.3
F	5-15-86	171	4	805.7
F	5-15-86	172	1	876.6
F	5-15-86	172	1	873.8
F	5-15-86	172	1	890.8
F	5-15-86	172	1	848.3
F	5-15-86	172	4	853.9
F	5-15-86	172	1	788.7
F	5-15-86	172	1	831.2
F	5-15-86	173	1	862.4
F	5-15-86	173	4	865.3
F	5-15-86	173	1	851.1
F	5-15-86	173	1	939.0
F	5-15-86	173	1	794.4
F	5-15-86	173	1	780.2
F	5-15-86	174	1	981.6

-Continued-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
F	5-15-86	174	1	885.1
F	5-15-86	174	1	882.3
F	5-15-86	175	1	913.5
F	5-15-86	175	1	890.8
F	5-15-86	176	1	927.7
F	5-15-86	177	1	893.7
F	5-15-86	178	1	964.6
F	5-15-86	178	1	930.5
F	5-15-86	178	1	1010.0
F	5-15-86	179	1	896.5
F	5-15-86	180	1	993.0
F	5-15-86	180	1	1018.5
F	5-15-86	180	1	967.4
F	5-15-86	180	4	899.3
F	5-15-86	180	1	964.6
F	5-15-86	181	4	973.1
F	5-15-86	182	1	953.2
F	5-15-86	182	1	987.3
F	5-15-86	182	1	1007.1
F	5-15-86	183	1	1024.2
F	5-15-86	183	1	1012.8
F	5-15-86	183	1	1066.7
F	5-15-86	183	1	995.8
F	5-15-86	183	1	1035.5
F	5-15-86	183	1	1044.0
F	5-15-86	183	1	1063.9
F	5-15-86	183	1	1032.7
F	5-15-86	184	1	1004.3
F	5-15-86	185	1	1063.9
F	5-15-86	185	2	1151.8
F	5-15-86	185	1	1120.6
F	5-15-86	186	1	1004.3
F	5-15-86	186	1	1046.9
F	5-15-86	186	4	1066.7
F	5-15-86	186	1	1097.9
F	5-15-86	187	1	1055.4
F	5-15-86	187	1	1132.0
F	5-15-86	188	1	1086.6
F	5-15-86	188	1	1095.1
F	5-15-86	188	1	1052.5
F	5-15-86	188	1	1086.6
F	5-15-86	188	1	1078.1

-Continued-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
F	5-15-86	189	1	1222.7
F	5-15-86	189	1	1012.8
F	5-15-86	189	1	1166.0
F	5-15-86	189	1	1149.0
F	5-15-86	189	1	1066.7
F	5-15-86	190	1	1143.3
F	5-15-86	190	1	1217.1
F	5-15-86	193	1	1183.0
F	5-15-86	193	1	1236.9
F	5-15-86	193	1	1146.1
F	5-15-86	195	1	1183.0
F	5-15-86	195	1	1307.9
F	5-15-86	196	1	1242.6
F	5-22-86	165	1	712.1
F	5-22-86	165	2	717.8
F	5-22-86	165	1	695.1
F	5-22-86	166	1	692.2
F	5-22-86	166	1	700.7
F	5-22-86	166	2	692.2
F	5-22-86	166	1	689.4
F	5-22-86	167	2	717.8
F	5-22-86	167	1	686.6
F	5-22-86	168	1	717.8
F	5-22-86	168	1	757.5
F	5-22-86	170	1	751.8
F	5-22-86	171	1	873.8
F	5-22-86	171	1	791.5
F	5-22-86	171	1	794.4
F	5-22-86	172	1	851.1
F	5-22-86	174	2	907.8
F	5-22-86	175	2	822.7
F	5-22-86	176	1	905.0
F	5-22-86	176	2	910.7
F	5-22-86	178	1	791.5
F	5-22-86	181	2	967.4
F	5-22-86	181	1	950.4
F	5-22-86	184	2	-0-
F	5-22-86	184	2	1058.2
F	5-22-86	185	2	-0-
F	5-22-86	187	2	1092.2
F	5-22-86	190	2	1191.5
F	5-22-86	190	2	1217.1

-Continued-

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<u>SECTION</u>	<u>DATE</u>	<u>WIDTH</u>	<u>SHELLAGE</u>	<u>WEIGHT^a</u>
F	6-16-86	162	2	-0-
F	6-16-86	164	2	-0-
F	6-16-86	167	1	-0-
F	6-16-86	167	2	-0-
F	6-16-86	168	2	-0-
F	6-16-86	168	1	-0-
F	6-16-86	168	1	-0-
F	6-16-86	169	2	-0-
F	6-16-86	169	2	-0-
F	6-16-86	169	2	-0-
F	6-16-86	169	2	-0-
F	6-16-86	171	1	-0-
F	6-16-86	171	2	-0-
F	6-16-86	172	1	-0-
F	6-16-86	172	1	-0-
F	6-16-86	172	1	-0-
F	6-16-86	173	1	-0-
F	6-16-86	173	1	-0-
F	6-16-86	174	2	-0-
F	6-16-86	174	1	-0-
F	6-16-86	174	1	-0-
F	6-16-86	175	1	-0-
F	6-16-86	175	1	-0-
F	6-16-86	177	1	-0-
F	6-16-86	177	1	-0-
F	6-16-86	177	2	-0-
F	6-16-86	178	1	-0-
F	6-16-86	178	1	-0-
F	6-16-86	178	1	-0-
F	6-16-86	178	1	-0-
F	6-16-86	180	2	-0-
F	6-16-86	180	1	-0-
F	6-16-86	180	1	-0-
F	6-16-86	181	1	-0-
F	6-16-86	182	2	-0-
F	6-16-86	183	1	-0-
F	6-16-86	185	1	-0-
F	6-16-86	185	2	-0-
F	6-16-86	185	2	-0-
F	6-16-86	186	1	-0-
F	6-16-86	187	1	-0-
F	6-16-86	188	2	-0-
F	6-16-86	189	1	-0-
F	6-16-86	189	2	-0-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
F	6-16-86	190	1	-0-
F	6-16-86	192	1	-0-
F	6-16-86	192	2	-0-
F	6-16-86	193	1	-0-
F	6-16-86	193	1	-0-
F	6-16-86	194	1	-0-
F	6-16-86	195	1	-0-
F	6-16-86	195	2	-0-
F	6-16-86	197	1	-0-
F	6-16-86	203	1	-0-
F	6-30-86	165	2	570.2
F	6-30-86	165	2	683.7
F	6-30-86	168	4	791.5
F	6-30-86	172	2	791.5
F	6-30-86	173	1	862.4
F	6-30-86	178	1	919.2
F	6-30-86	179	4	978.8
F	6-30-86	181	1	1018.5
F	6-30-86	182	2	856.8
F	6-30-86	182	4	987.3
F	6-30-86	184	2	1012.8
F	6-30-86	184	1	1032.7
F	6-30-86	184	4	1004.3
F	6-30-86	189	4	1137.6
F	6-30-86	190	4	1134.8
F	6-30-86	192	2	1012.8
F	6-30-86	192	1	1132.0
F	6-30-86	192	4	1083.7
F	6-30-86	192	4	1024.2
F	6-30-86	198	2	1231.3
F	7- 7-86	166	4	729.1
F	7- 7-86	170	4	757.5
F	7- 7-86	171	1	868.1
F	7- 7-86	171	1	848.3
F	7- 7-86	171	4	720.6
F	7- 7-86	173	2	868.1
F	7- 7-86	173	2	871.0
F	7- 7-86	173	2	848.3
F	7- 7-86	174	1	768.8
F	7- 7-86	175	4	717.8
F	7- 7-86	175	1	868.1
F	7- 7-86	176	4	598.6

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
F	7- 7-86	176	4	893.7
F	7- 7-86	176	1	868.1
F	7- 7-86	176	4	879.5
F	7- 7-86	176	1	902.2
F	7- 7-86	177	1	882.3
F	7- 7-86	178	1	910.7
F	7- 7-86	179	1	819.9
F	7- 7-86	179	1	916.4
F	7- 7-86	179	1	845.4
F	7- 7-86	179	1	930.5
F	7- 7-86	180	4	916.4
F	7- 7-86	180	4	859.6
F	7- 7-86	181	1	828.4
F	7- 7-86	183	4	993.0
F	7- 7-86	183	4	953.2
F	7- 7-86	184	1	964.6
F	7- 7-86	185	4	919.2
F	7- 7-86	186	4	964.6
F	7- 7-86	186	1	975.9
F	7- 7-86	187	4	1055.4
F	7- 7-86	187	4	1112.1
F	7- 7-86	188	2	1038.3
F	7- 7-86	188	4	1061.0
F	7- 7-86	188	4	924.9
F	7- 7-86	189	4	987.3
F	7- 7-86	190	4	950.4
F	7- 7-86	190	1	1132.0
F	7- 7-86	191	4	1089.4
F	7- 7-86	191	1	1103.6
F	7- 7-86	191	4	1075.2
F	7- 7-86	193	4	1086.6
F	7- 7-86	193	4	1177.4
F	7- 7-86	194	2	1149.0
F	7- 7-86	194	1	1214.2
F	7- 7-86	195	1	1046.9
F	7- 7-86	199	4	1259.6
F	7- 7-86	201	2	1444.0
F	7- 7-86	202	4	1319.2
F	7- 8-86	164	1	700.7
F	7- 8-86	164	1	695.1
F	7- 8-86	164	1	774.5
F	7- 8-86	165	1	692.2

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
F	7- 8-86	165	1	751.8
F	7- 8-86	165	1	692.2
F	7- 8-86	166	1	734.8
F	7- 8-86	168	1	797.2
F	7- 8-86	169	1	797.2
F	7- 8-86	173	1	853.9
F	7- 8-86	173	1	808.5
F	7- 8-86	173	1	927.7
F	7- 8-86	175	1	871.0
F	7- 8-86	176	1	927.7
F	7- 8-86	176	1	822.7
F	7- 8-86	176	1	828.4
F	7- 8-86	176	1	924.9
F	7- 8-86	177	1	873.8
F	7- 8-86	177	1	910.7
F	7- 8-86	177	1	896.5
F	7- 8-86	181	1	995.8
F	7- 8-86	183	1	1032.7
F	7- 8-86	183	1	1046.9
F	7- 8-86	183	1	1032.7
F	7- 8-86	186	1	1032.7
F	7- 8-86	187	1	1251.1
F	7- 8-86	188	1	1132.0
F	7- 8-86	188	1	978.8
F	7- 8-86	189	1	1157.5
F	7- 8-86	189	1	927.7
F	7- 8-86	189	1	1114.9
F	7- 8-86	191	1	1075.2
F	7- 8-86	191	1	1103.6
F	7- 8-86	192	1	1197.2
F	7- 8-86	199	1	1256.8
F	7- 8-86	210	2	1444.0
F	8- 8-86	166	1	771.7
F	8- 8-86	166	1	737.6
F	8- 8-86	167	2	663.9
F	8- 8-86	167	1	717.8
F	8- 8-86	167	1	785.8
F	8- 8-86	167	1	734.8
F	8- 8-86	168	1	763.2
F	8- 8-86	168	1	726.3
F	8- 8-86	170	1	836.9
F	8- 8-86	170	1	791.5

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
F	8- 8-86	171	1	819.9
F	8- 8-86	171	1	842.6
F	8- 8-86	171	1	669.5
F	8- 8-86	172	1	839.8
F	8- 8-86	173	1	868.1
F	8- 8-86	174	1	910.7
F	8- 8-86	174	1	865.3
F	8- 8-86	175	1	836.9
F	8- 8-86	175	1	808.5
F	8- 8-86	179	1	899.3
F	8- 8-86	179	1	930.5
F	8- 8-86	180	1	975.9
F	8- 8-86	180	1	902.2
F	8- 8-86	181	1	944.7
F	8- 8-86	181	1	896.5
F	8- 8-86	181	1	825.6
FF	8- 8-86	182	1	1029.8
F	8- 8-86	184	4	984.4
F	8- 8-86	186	1	998.6
F	8- 8-86	187	2	1038.3
F	8- 8-86	187	1	1075.2
F	8- 8-86	187	1	1029.8
F	8- 8-86	189	1	1072.4
FF	8- 8-86	189	2	1103.6
FF	8- 8-86	190	2	1041.2
F	8- 8-86	192	1	981.6
F	8- 8-86	192	1	978.8
FF	8-19-86	164	1	680.9
FF	8-19-86	167	1	663.9
F	8-19-86	168	4	709.3
F	8-19-86	168	1	680.9
F	8-19-86	168	1	729.1
FF	8-19-86	171	1	836.9
F	8-19-86	171	4	723.4
F	8-19-86	173	1	808.5
F	8-19-86	173	1	950.4
F	8-19-86	173	1	819.9
F	8-19-86	174	1	726.3
F	8-19-86	174	1	828.4
F	8-19-86	178	1	916.4
F	8-19-86	178	1	768.8
F	8-19-86	178	4	828.4

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
F	8-19-86	178	1	794.4
F	8-19-86	179	1	910.7
F	8-19-86	180	1	853.9
F	8-19-86	180	1	910.7
F	8-19-86	180	1	888.0
F	8-19-86	180	1	944.7
F	8-19-86	180	1	958.9
F	8-19-86	182	1	987.3
F	8-19-86	183	1	961.7
F	8-19-86	183	1	973.1
F	8-19-86	185	4	839.8
F	8-19-86	185	1	961.7
F	8-19-86	185	4	723.4
F	8-19-86	185	1	1032.7
F	8-19-86	186	1	964.6
F	8-19-86	186	1	944.7
F	8-19-86	187	1	993.0
F	8-19-86	187	1	933.4
F	8-19-86	188	1	1163.2
F	8-19-86	190	1	1052.5
F	8-19-86	190	2	1114.9
F	8-19-86	190	1	1143.3
F	8-19-86	190	4	987.3
F	8-19-86	192	1	1214.2
F	8-19-86	192	1	1032.7
F	8-19-86	192	1	993.0
F	8-19-86	192	4	1114.9
F	8-19-86	192	1	1254.0
F	8-19-86	194	1	1254.0
F	8-19-86	194	1	1112.1
F	8-19-86	195	1	1109.3
F	8-19-86	197	1	1126.3
F	8-19-86	197	1	1168.8
F	8-19-86	198	1	1123.5
F	8-19-86	198	1	1185.9
F	8-19-86	213	2	1585.9
F	8-21-86	164	1	777.3
F	8-21-86	165	4	740.5
F	8-21-86	165	1	649.7
F	8-21-86	165	4	658.2
F	8-21-86	166	1	720.6
F	8-21-86	168	1	825.6

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
F	8-21-86	168	4	675.2
F	8-21-86	168	1	771.7
F	8-21-86	169	1	766.0
F	8-21-86	170	1	811.4
F	8-21-86	170	1	888.0
F	8-21-86	171	2	731.9
F	8-21-86	172	1	763.2
F	8-21-86	172	1	871.0
F	8-21-86	173	2	958.9
F	8-21-86	174	2	967.4
F	8-21-86	180	4	1024.2
F	8-21-86	182	2	1038.3
F	8-21-86	185	1	939.0
F	8-21-86	185	1	1055.4
F	8-21-86	186	1	1078.1
F	8-21-86	187	1	1027.0
F	8-21-86	188	1	990.1
F	8-21-86	188	2	1095.1
F	8-21-86	188	1	1149.0
F	8-21-86	191	1	1078.1
F	8-21-86	192	1	1177.4
F	8-21-86	194	2	1168.8
F	8-21-86	197	1	1265.3
G (NM)	8-19-86	157	1	624.1
G	8-19-86	160	1	663.9
G	8-19-86	160	1	663.9
G	8-19-86	161	2	646.8
G	8-19-86	162	1	663.9
G	8-19-86	162	1	641.2
G	8-19-86	163	1	649.7
G	8-19-86	163	1	680.9
G	8-19-86	163	1	658.2
G	8-19-86	163	1	723.4
G	8-19-86	163	1	-0-
G	8-19-86	164	1	-0-
G	8-19-86	164	2	-0-
G	8-19-86	164	1	683.7
G	8-19-86	164	1	-0-
G	8-19-86	164	1	-0-
G	8-19-86	164	1	661.0
G	8-19-86	165	1	734.8
G	8-19-86	165	1	680.9

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
G	8-19-86	165	2	754.6
G	8-19-86	165	1	675.2
G	8-19-86	165	1	726.3
G	8-19-86	165	1	697.9
G	8-19-86	165	1	703.6
G	8-19-86	165	1	714.9
G	8-19-86	166	1	680.9
G	8-19-86	166	1	703.6
G	8-19-86	166	1	-0-
G	8-19-86	166	1	720.6
G	8-19-86	166	1	-0-
G	8-19-86	167	1	709.3
G	8-19-86	167	1	760.3
G	8-19-86	167	1	749.0
G	8-19-86	167	1	768.8
G	8-19-86	167	1	-0-
G	8-19-86	167	1	771.7
G	8-19-86	167	1	-0-
G	8-19-86	167	1	-0-
G	8-19-86	167	1	-0-
G	8-19-86	167	1	-0-
G	8-19-86	167	1	-0-
G	8-19-86	167	1	-0-
G	8-19-86	167	1	-0-
G	8-19-86	167	1	726.3
G	8-19-86	167	1	-0-
G	8-19-86	167	1	-0-
G	8-19-86	168	1	-0-
G	8-19-86	168	1	777.3
G	8-19-86	168	1	723.4
G	8-19-86	168	1	751.8
G	8-19-86	168	1	777.3
G	8-19-86	168	1	709.3
G	8-19-86	168	1	720.6
G	8-19-86	168	1	712.1
G	8-19-86	168	1	742.9
G	8-19-86	168	1	802.9
G	8-19-86	168	1	-0-
G	8-19-86	168	1	814.2
G	8-19-86	168	1	703.6
G	8-19-86	168	1	754.6
G	8-19-86	168	1	-0-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
G	8-19-86	168	1	714.9
G	8-19-86	169	1	794.4
G	8-19-86	169	2	-0-
G	8-19-86	169	1	-0-
G	8-19-86	169	1	-0-
G	8-19-86	169	1	641.2
G	8-19-86	169	1	-0-
G	8-19-86	169	1	731.9
G	8-19-86	169	1	-0-
G	8-19-86	169	1	723.4
G	8-19-86	169	1	751.8
G	8-19-86	169	1	734.8
G	8-19-86	170	1	689.4
G	8-19-86	170	1	771.7
G	8-19-86	170	1	763.2
G	8-19-86	170	2	853.9
G	8-19-86	170	1	754.6
G	8-19-86	170	1	800.0
G	8-19-86	170	1	771.7
G	8-19-86	170	1	714.9
G	8-19-86	170	1	-0-
G	8-19-86	170	1	788.7
G	8-19-86	170	1	-0-
G	8-19-86	170	1	760.3
G	8-19-86	170	1	788.7
G	8-19-86	170	1	771.7
G	8-19-86	170	1	788.7
G	8-19-86	170	1	754.6
G	8-19-86	171	1	-0-
G	8-19-86	171	1	-0-
G	8-19-86	171	1	-0-
G	8-19-86	171	2	757.5
G	8-19-86	171	1	842.6
G	8-19-86	171	1	802.9
G	8-19-86	171	1	788.7
G	8-19-86	171	1	788.7
G	8-19-86	171	2	805.7
G	8-19-86	171	1	-0-
G	8-19-86	171	1	774.5
G	8-19-86	171	1	839.8
G	8-19-86	171	1	768.8
G	8-19-86	171	1	808.5

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<u>SECTION</u>	<u>DATE</u>	<u>WIDTH</u>	<u>SHELLAGE</u>	<u>WEIGHT^a</u>
G	8-19-86	171	1	740.5
G	8-19-86	172	1	-0-
G	8-19-86	172	1	822.7
G	8-19-86	172	1	-0-
G	8-19-86	172	1	822.7
G	8-19-86	172	1	-0-
G	8-19-86	172	2	788.7
G	8-19-86	172	1	817.1
G	8-19-86	172	1	766.0
G	8-19-86	172	1	751.8
G	8-19-86	172	1	689.4
G	8-19-86	172	1	808.5
G	8-19-86	172	1	797.2
G	8-19-86	172	1	791.5
G	8-19-86	172	1	805.7
G	8-19-86	172	1	814.2
G	8-19-86	173	1	800.0
G	8-19-86	173	2	-0-
G	8-19-86	173	2	768.8
G	8-19-86	173	1	853.9
G	8-19-86	173	1	882.3
G	8-19-86	173	1	896.5
G	8-19-86	173	1	726.3
G	8-19-86	173	1	-0-
G	8-19-86	173	1	825.6
G	8-19-86	173	1	825.6
G	8-19-86	173	1	819.9
G	8-19-86	173	1	-0-
G	8-19-86	173	1	834.1
G	8-19-86	173	1	768.8
G	8-19-86	173	2	919.2
G	8-19-86	174	1	825.6
G	8-19-86	174	1	-0-
G	8-19-86	174	1	851.1
G	8-19-86	174	1	-0-
G	8-19-86	174	2	-0-
G	8-19-86	174	1	743.3
G	8-19-86	174	1	822.7
G	8-19-86	174	1	862.4
G	8-19-86	174	1	-0-
G	8-19-86	174	1	-0-
G	8-19-86	174	1	-0-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
G	8-19-86	174	1	851.1
G	8-19-86	174	1	817.1
G	8-19-86	174	1	-0-
G	8-19-86	174	1	865.3
G	8-19-86	175	1	-0-
G	8-19-86	175	1	-0-
G	8-19-86	175	1	-0-
G	8-19-86	175	1	851.1
G	8-19-86	175	1	-0-
G	8-19-86	175	1	-0-
G	8-19-86	175	2	842.6
G	8-19-86	175	1	-0-
G	8-19-86	175	1	607.1
G	8-19-86	175	1	788.7
G	8-19-86	175	1	-0-
G	8-19-86	175	1	-0-
G	8-19-86	175	1	-0-
G	8-19-86	175	1	-0-
G	8-19-86	176	1	-0-
G	8-19-86	176	1	933.4
G	8-19-86	176	1	-0-
G	8-19-86	176	1	987.3
G	8-19-86	176	1	873.8
G	8-19-86	176	1	-0-
G	8-19-86	176	1	927.7
G	8-19-86	176	1	-0-
G	8-19-86	176	1	828.4
G	8-19-86	177	1	888.0
G	8-19-86	177	1	825.6
G	8-19-86	177	1	902.2
G	8-19-86	177	1	916.4
G	8-19-86	177	1	785.8
G	8-19-86	177	1	885.1
G	8-19-86	177	1	964.6
G	8-19-86	177	1	916.4
G	8-19-86	177	1	-0-
G	8-19-86	177	1	876.6
G	8-19-86	177	2	871.0
G	8-19-86	178	1	-0-
G	8-19-86	178	1	856.8
G	8-19-86	178	1	-0-
G	8-19-86	178	1	-0-
G	8-19-86	178	1	893.7

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
G	8-19-86	178	1	919.2
G	8-19-86	178	1	-0-
G	8-19-86	179	1	871.0
G	8-19-86	179	1	922.0
G	8-19-86	179	1	990.1
G	8-19-86	179	1	-0-
G	8-19-86	179	1	-0-
G	8-19-86	179	2	953.2
G	8-19-86	179	1	933.4
G	8-19-86	179	1	981.6
G	8-19-86	179	1	-0-
G	8-19-86	180	1	1001.5
G	8-19-86	180	1	922.0
G	8-19-86	180	1	893.7
G	8-19-86	180	1	814.2
G	8-19-86	180	1	-0-
G	8-19-86	180	1	956.1
G	8-19-86	180	1	967.4
G	8-19-86	180	1	825.6
G	8-19-86	181	2	930.5
G	8-19-86	181	1	950.4
G	8-19-86	181	1	973.1
G	8-19-86	181	1	975.9
G	8-19-86	181	1	-0-
G	8-19-86	181	1	-0-
G	8-19-86	181	1	953.2
G	8-19-86	181	1	939.0
G	8-19-86	181	1	726.3
G	8-19-86	181	1	950.4
G	8-19-86	182	1	944.7
G	8-19-86	182	1	794.4
G	8-19-86	182	1	-0-
G	8-19-86	182	1	859.6
G	8-19-86	182	1	890.8
G	8-19-86	182	1	-0-
G	8-19-86	182	2	913.5
G	8-19-86	182	1	1010.0
G	8-19-86	182	2	-0-
G	8-19-86	182	1	-0-
G	8-19-86	182	1	919.2
G	8-19-86	182	1	1044.0
G	8-19-86	182	1	947.6

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
G	8-19-86	183	1	845.4
G	8-19-86	183	1	-0-
G	8-19-86	183	2	1066.7
G	8-19-86	183	1	1052.5
G	8-19-86	183	1	995.8
G	8-19-86	183	1	1004.3
G	8-19-86	184	1	933.4
G	8-19-86	184	2	1035.5
G	8-19-86	184	1	990.1
G	8-19-86	184	1	967.4
G	8-19-86	185	1	1137.6
G	8-19-86	185	1	975.9
G	8-19-86	185	1	896.5
G	8-19-86	185	1	995.8
G	8-19-86	185	2	856.8
G	8-19-86	185	1	1063.9
G	8-19-86	185	1	984.4
G	8-19-86	185	1	1035.5
G	8-19-86	186	1	1055.4
G	8-19-86	186	2	936.2
G	8-19-86	186	2	-0-
G	8-19-86	186	2	1024.2
G	8-19-86	186	1	1015.6
G	8-19-86	186	1	973.1
G	8-19-86	186	2	953.2
G	8-19-86	186	1	-0-
G	8-19-86	186	1	-0-
G	8-19-86	187	2	-0-
G	8-19-86	187	2	873.8
G	8-19-86	187	1	822.7
G	8-19-86	188	2	-0-
G	8-19-86	188	1	1083.7
G	8-19-86	188	2	1114.9
G	8-19-86	188	1	-0-
G	8-19-86	189	2	1126.3
G	8-19-86	189	2	1100.8
G	8-19-86	190	2	1180.2
G	8-19-86	190	2	1149.0
G	8-19-86	190	1	1097.9
G	8-19-86	190	1	1044.0
G	8-19-86	191	2	-0-
G	8-19-86	191	1	1089.4

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
G	8-19-86	191	2	-0-
G	8-19-86	191	2	1174.5
G	8-19-86	191	2	1078.1
G	8-19-86	191	1	1188.7
G	8-19-86	191	1	1080.9
G	8-19-86	192	1	-0-
G	8-19-86	192	2	-0-
G	8-19-86	192	2	1038.3
G	8-19-86	192	1	-0-
G	8-19-86	192	2	1123.5
G	8-19-86	193	1	1129.1
G	8-19-86	193	2	1242.6
G	8-19-86	194	2	1106.4
G	8-19-86	194	1	1185.9
G	8-19-86	195	2	1265.3
G	8-19-86	195	1	1185.9
G	8-19-86	197	2	1236.9
G	8-19-86	198	2	1305.0
G	8-19-86	199	1	-0-
G	8-19-86	199	2	-0-
G	9-25-86	164	1	689.4
G	9-25-86	164	1	751.8
G	9-25-86	165	1	751.8
G	9-25-86	165	1	791.5
G	9-25-86	165	1	743.3
G	9-25-86	165	1	695.1
G	9-25-86	165	1	734.8
G	9-25-86	165	1	771.7
G	9-25-86	166	1	743.3
G	9-25-86	167	1	697.9
G	9-25-86	167	1	754.6
G	9-25-86	167	1	768.8
G	9-25-86	168	1	763.2
G	9-25-86	169	1	774.5
G	9-25-86	169	1	788.7
G	9-25-86	170	1	714.9
G	9-25-86	170	1	808.5
G	9-25-86	170	1	791.5
G	9-25-86	170	1	777.3
G	9-25-86	170	1	831.2
G	9-25-86	170	2	814.2
G	9-25-86	170	1	746.1

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
G	9-25-86	170	1	845.4
G	9-25-86	170	1	845.4
G	9-25-86	170	1	822.7
G	9-25-86	170	1	811.4
G	9-25-86	170	1	814.2
G	9-25-86	170	1	814.2
G	9-25-86	170	1	797.2
G	9-25-86	170	1	794.4
G	9-25-86	171	1	834.1
G	9-25-86	171	1	771.7
G	9-25-86	171	1	822.7
G	9-25-86	171	1	777.3
G	9-25-86	171	1	856.8
G	9-25-86	171	1	783.0
G	9-25-86	172	1	907.8
G	9-25-86	172	1	808.5
G	9-25-86	172	1	777.3
G	9-25-86	172	1	731.9
G	9-25-86	172	1	695.1
G	9-25-86	172	1	811.4
G	9-25-86	173	1	890.8
G	9-25-86	173	1	882.3
G	9-25-86	173	1	910.7
G	9-25-86	173	1	865.3
G	9-25-86	173	1	802.9
G	9-25-86	173	1	851.1
G	9-25-86	173	1	853.9
G	9-25-86	174	1	777.3
G	9-25-86	174	1	910.7
G	9-25-86	174	1	865.3
G	9-25-86	174	1	882.3
G	9-25-86	174	1	859.6
G	9-25-86	174	1	853.9
G	9-25-86	174	1	865.3
G	9-25-86	175	1	749.0
G	9-25-86	175	1	876.6
G	9-25-86	175	1	899.3
G	9-25-86	175	1	936.2
G	9-25-86	175	1	871.0
G	9-25-86	175	2	970.3
G	9-25-86	175	1	785.8
G	9-25-86	176	1	947.6

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
G	9-25-86	176	1	853.9
G	9-25-86	177	1	896.5
G	9-25-86	177	1	958.9
G	9-25-86	177	1	873.8
G	9-25-86	177	1	919.2
G	9-25-86	177	1	834.1
G	9-25-86	177	1	888.0
G	9-25-86	177	1	817.1
G	9-25-86	178	1	893.7
G	9-25-86	179	1	936.2
G	9-25-86	179	1	975.9
G	9-25-86	180	1	941.9
G	9-25-86	180	1	973.1
G	9-25-86	180	1	947.6
G	9-25-86	180	1	941.9
G	9-25-86	180	1	1012.8
G	9-25-86	180	1	905.0
G	9-25-86	181	1	905.0
G	9-25-86	181	1	885.1
G	9-25-86	181	1	1044.0
G	9-25-86	181	1	916.4
G	9-25-86	181	1	941.9
G	9-25-86	182	1	978.8
G	9-25-86	183	1	958.9
G	9-25-86	183	1	941.9
G	9-25-86	183	1	978.8
G	9-25-86	184	1	777.3
G	9-25-86	184	1	975.9
G	9-25-86	184	1	1044.0
G	9-25-86	185	2	1018.5
G	9-25-86	185	1	905.0
G	9-25-86	185	1	785.8
G	9-25-86	185	1	1055.4
G	9-25-86	185	1	1044.0
G	9-25-86	185	2	1109.3
G	9-25-86	185	2	998.6
G	9-25-86	186	1	1058.2
G	9-25-86	186	1	845.4
G	9-25-86	186	1	1066.7
G	9-25-86	187	1	1114.9
G	9-25-86	187	1	1032.7
G	9-25-86	189	2	1160.3

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
G	9-25-86	191	1	1143.3
G	9-25-86	192	2	1177.4
G	10-24-86	161	1	760.3
G	10-24-86	161	1	-0-
G	10-24-86	162	1	-0-
G	10-24-86	164	1	-0-
G	10-24-86	165	1	-0-
G	10-24-86	165	1	737.6
G	10-24-86	166	1	760.3
G	10-24-86	166	1	768.8
G	10-24-86	166	1	-0-
G	10-24-86	166	1	-0-
G	10-24-86	166	1	-0-
G	10-24-86	166	1	-0-
G	10-24-86	167	1	-0-
G	10-24-86	167	1	757.5
G	10-24-86	167	1	749.0
G	10-24-86	167	1	-0-
G	10-24-86	167	1	-0-
G	10-24-86	167	1	714.9
G	10-24-86	169	1	-0-
G	10-24-86	169	1	-0-
G	10-24-86	169	1	-0-
G	10-24-86	169	1	774.5
G	10-24-86	170	1	-0-
G	10-24-86	170	1	822.7
G	10-24-86	170	1	876.6
G	10-24-86	170	1	-0-
G	10-24-86	170	1	-0-
G	10-24-86	170	1	-0-
G	10-24-86	171	2	868.1
G	10-24-86	171	1	780.2
G	10-24-86	171	1	-0-
G	10-24-86	172	1	-0-
G	10-24-86	172	1	896.5
G	10-24-86	173	1	845.4
G	10-24-86	173	1	896.5
G	10-24-86	174	1	797.2
G	10-24-86	174	1	910.7
G	10-24-86	174	1	-0-
G	10-24-86	174	1	905.0

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
G	10-24-86	175	1	791.5
G	10-24-86	176	1	-0-
G	10-24-86	176	1	802.9
G	10-24-86	176	1	-0-
G	10-24-86	176	1	871.0
G	10-24-86	176	2	-0-
G	10-24-86	176	2	-0-
G	10-24-86	176	1	922.0
G	10-24-86	176	1	-0-
G	10-24-86	176	1	930.5
G	10-24-86	177	1	981.6
G	10-24-86	177	1	927.7
G	10-24-86	177	1	-0-
G	10-24-86	177	1	-0-
G	10-24-86	179	2	941.9
G	10-24-86	179	1	-0-
G	10-24-86	179	1	936.2
G	10-24-86	179	2	958.9
G	10-24-86	179	1	-0-
G	10-24-86	180	1	941.9
G	10-24-86	180	2	-0-
G	10-24-86	180	2	1001.5
G	10-24-86	180	1	899.3
G	10-24-86	180	1	873.8
G	10-24-86	180	1	922.0
G	10-24-86	181	1	919.2
G	10-24-86	181	2	933.4
G	10-24-86	182	2	1052.5
G	10-24-86	182	1	1001.5
G	10-24-86	182	1	975.9
G	10-24-86	182	1	927.7
G	10-24-86	182	1	893.7
G	10-24-86	182	1	-0-
G	10-24-86	183	1	-0-
G	10-24-86	184	1	-0-
G	10-24-86	184	1	930.5
G	10-24-86	184	1	-0-
G	10-24-86	184	1	-0-
G	10-24-86	185	1	1021.3
G	10-24-86	185	1	-0-
G	10-24-86	185	1	995.8
G	10-24-86	185	1	1066.7

-Continued-

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
G	10-24-86	186	1	1089.4
G	10-24-86	186	1	-0-
G	10-24-86	186	1	-0-
G	10-24-86	186	2	1092.2
G	10-24-86	187	1	-0-
G	10-24-86	187	1	1038.3
G	10-24-86	189	1	-0-
G	10-24-86	189	2	-0-
G	10-24-86	190	1	-0-
G	10-24-86	191	1	1231.3
G	10-24-86	191	1	1089.4
G	10-24-86	192	1	-0-
G	10-24-86	192	1	-0-
G	10-24-86	193	1	-0-
G	10-24-86	194	2	1271.0
G	10-24-86	195	1	-0-
G	10-24-86	196	1	-0-
G	10-24-86	196	1	-0-
H (SM)	9-18-86	162	1	672.4
H	9-18-86	162	1	754.6
H	9-18-86	163	1	615.6
H	9-18-86	163	1	689.4
H	9-18-86	163	1	663.9
H	9-18-86	163	1	709.3
H	9-18-86	163	1	627.0
H	9-18-86	163	1	652.5
H	9-18-86	163	1	692.2
H	9-18-86	164	1	740.5
H	9-18-86	164	1	720.6
H	9-18-86	164	1	740.5
H	9-18-86	164	1	720.6
H	9-18-86	164	2	686.6
H	9-18-86	164	1	766.0
H	9-18-86	165	1	743.3
H	9-18-86	165	1	714.9
H	9-18-86	165	1	709.3
H	9-18-86	165	1	675.2
H	9-18-86	165	1	717.8
H	9-18-86	165	1	774.5
H	9-18-86	165	1	720.6
H	9-18-86	165	1	714.9
H	9-18-86	165	1	777.3

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
H	9-18-86	165	1	749.0
H	9-18-86	166	1	661.0
H	9-18-86	166	1	726.3
H	9-18-86	166	1	754.6
H	9-18-86	166	1	646.8
H	9-18-86	166	1	791.5
H	9-18-86	166	1	737.6
H	9-18-86	166	1	675.2
H	9-18-86	167	1	751.8
H	9-18-86	167	1	661.0
H	9-18-86	167	1	746.1
H	9-18-86	167	1	737.6
H	9-18-86	167	1	749.0
H	9-18-86	167	1	695.1
H	9-18-86	167	1	680.9
H	9-18-86	167	1	663.9
H	9-18-86	167	1	700.7
H	9-18-86	167	1	780.2
H	9-18-86	167	1	712.1
H	9-18-86	168	1	709.3
H	9-18-86	168	1	757.5
H	9-18-86	168	1	777.3
H	9-18-86	168	1	791.5
H	9-18-86	169	1	768.8
H	9-18-86	169	2	853.9
H	9-18-86	169	1	683.7
H	9-18-86	169	1	780.2
H	9-18-86	169	1	791.5
H	9-18-86	169	1	714.9
H	9-18-86	169	1	845.4
H	9-18-86	169	1	749.0
H	9-18-86	169	1	740.5
H	9-18-86	169	1	669.5
H	9-18-86	169	1	749.0
H	9-18-86	170	2	737.6
H	9-18-86	170	1	740.5
H	9-18-86	170	1	785.8
H	9-18-86	170	1	819.9
H	9-18-86	170	1	831.2
H	9-18-86	170	1	697.9
H	9-18-86	170	1	794.4
H	9-18-86	170	1	726.3

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SECTION	DATE	WIDTH	SHELLAGE	WEIGHT ^a
H	9-18-86	170	1	802.9
H	9-18-86	170	2	825.6
H	9-18-86	172	1	879.5
H	9-18-86	172	1	845.4
H	9-18-86	172	1	856.8
H	9-18-86	172	1	834.1
H	9-18-86	172	1	794.4
H	9-18-86	172	1	805.7
H	9-18-86	173	1	822.7
H	9-18-86	173	1	848.3
H	9-18-86	173	1	868.1
H	9-18-86	173	1	873.8
H	9-18-86	173	1	825.6
H	9-18-86	173	1	888.0
H	9-18-86	174	1	822.7
H	9-18-86	174	1	783.0
H	9-18-86	175	1	882.3
H	9-18-86	175	1	834.1
H	9-18-86	175	1	700.7
H	9-18-86	176	1	740.5
H	9-18-86	176	1	822.7
H	9-18-86	177	1	944.7
H	9-18-86	177	1	817.1
H	9-18-86	177	1	768.8
H	9-18-86	178	1	768.8
H	9-18-86	179	1	771.7
H	9-18-86	180	1	975.9
H	9-18-86	180	1	916.4
H	9-18-86	182	1	1004.3
H	9-18-86	183	1	964.6
H	9-18-86	183	1	899.3
H	9-18-86	183	1	930.5
H	9-18-86	184	1	1001.5
H	9-18-86	192	2	1106.4

^a0=not recorded

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